

Th. Sect.

THESIS for M.D. DEGREE

AGE-TYPES OF TUBERCULOSIS IN AUSTRALIA

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AGE - TYPES OF TUBERCULOSIS IN AUSTRALIA

INTRODUCTION

In statistical investigations  
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bined and the effects of particula

The Dean of the Faculty of Medicine,  
Edinburgh University.

Dear Sir,

I forwarded by the mail due to reach London  
on 16<sup>th</sup> prox. a thesis for the M.B. Degree entitled  
"Age-Types of Tuberculosis in Australia". I regret that  
owing to a rush of work in my practice at the last  
minute, I omitted to number the references in the text  
and to complete other details. Under separate cover I  
have also sent a registered letter in which are enclosed  
the various documents and the matriculation fee.

## AGE - TYPES OF TUBERCULOSIS IN AUSTRALIA

### INTRODUCTION

In statistical investigations on Tuberculosis, the general death rates for all ages combined and the effects of particular conditions and of particular methods of attacking the disease on the general death rates have usually been the subjects of discussion. But a comparison of the general death rates in different areas is unreliable, as in one area the mortality may be mainly among young persons, while in another it may be mainly among the elderly.

Brownlee undertook a more detailed investigation by examining the death rates at the various age-groups. This method is much superior to the study merely of the general death rates, but also, as Brownlee points out, fails to give an exact measure of the susceptibility to disease, except in the single case when the population prior to the period in question has not been exposed to the special agent of infection for many years, as only under such conditions is the proportion of persons susceptible to the disease in any age-group undisturbed by previous/



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previous mortality due to the disease. In the case of Tuberculosis, which is ever present, this factor cannot be eliminated.

This method of procedure enabled Brownlee to study Phthisis from a new point of view altogether, as the age of maximum susceptibility to it became a new and important factor for study and inherent properties of the disease were disclosed. He employed the phthisis mortality statistics contained in the publications of the Registrars-General of England, Scotland and Ireland for the period 1851-1910, examining the Counties separately, and also, in some instances, the groups of registration districts in those counties. The interesting phenomenon was noted that the curve representing the phthisis death rates of Great Britain at the various age groups from age 10 years is not a simple one such as that drawn from the death rates at the various age groups for Scarlet Fever with a fairly rapid and regular ascent to a maximum followed by a similar decline, but is built up of three distinct simple curves. Brownlee concluded, after taking into account the possibility that such a phenomenon might be due to the effects of environment with the establishment of some degree of/



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of immunity among survivors, that it is really the result of the presence of at least two and possibly three types of the bacillus, which produce corresponding types of the disease according to the age-group most affected, namely the 'young adult' type with the maximum incidence between 20 and 25 years of age, the 'middle age' type chiefly affecting age group 45 to 50 years, and the 'old age' type in which the mortality occurs mainly between 55 and 65 years. Those age-groups refer to the experience among males. Among females the maximum in the 'young adult' type was found to occur at a later age than among males, while the reverse obtained for the 'middle age' type, but no very great difference was shown between the total death-rates of the two sexes due to these two types; and there was found to be three times as much 'old age' phthisis among males as among females. There proved to be a high positive correlation between the amounts of each type of phthisis present in the two sexes, suggesting that the three types are separate varieties of the disease.

With reference to the effect of various factors, Brownlee's deductions were as follows:-

As to occupation, it is more probable that the/

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the alteration of the lung tissues associated with the particular occupation predisposes to the special type of the disease than that the age at which the disease develops is due to the specific conditions of work.

As to environment, the evidence suggests that phthisis of the 'middle age' type is an infection of which the virulence is increased by the presence of unhealthy conditions and that the phthisis of 'youth' and 'old age' are infections the spread of which is not affected to any extent by environment.

As to geographical distribution, in the coast districts there was found to be more early phthisis and in the urban districts from London to the Northern Midlands, more 'middle age' phthisis.

A positive correlation was obtained between the 'young adult' type of phthisis, and the 'old age' type; and a negative correlation, constantly present and high in value between the amount of 'young adult' and of 'middle age' phthisis.

Statistical evidence indicated that the human type of bacillus which causes tuberculosis in children and at middle age and the bovine type of the bacillus are in all probability the same, a change from the latter to the former taking place in/

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in the human laboratory.

The epidemiology of the 'young adult' and 'middle age' types of phthisis was found to be different. The present epidemic of the former had its maximum about the middle of last century, whilst the epidemic of the latter had its maximum fully one hundred years ago. This alone would necessarily involve a rise in the mean age at death from phthisis, a fact, which, however, has been ascribed to the acquirement of immunity by the population, to the elimination of susceptible persons or to improved hygienic conditions.

The following additional relationships seemed to be found for the three types of phthisis, quoting Brownlee :-

a. Phthisis in the 'young adult' :-

- (1) Other things being equal, it is more common in districts exposed to the south-west wind. The evidence for this is confined to certain districts in Devonshire.
- (2) It is more common above glacial clay than above glacial sand, or than above the highly organic London clay. The evidence for this refers to Norfolk, Suffolk, and Essex.
- (3) It is less common in those districts in which there is a large number of deaths from Tuberculosis in children.
- (4) It is also less common in those districts in which there is much phthisis in 'middle age.'
- (5) It is less common in the counties from which a large amount of milk infected with tubercle is sent to London.
- (6) It/

- 6.
- (6) It is common among persons in employments exposed to wind and wet..Thus, there is a large amount among seamen, dock labourers, etc... Further, the amount of this type of phthisis among agricultural labourers, though not high, is very high in proportion to that expected, did the agricultural labourer die of phthisis according to the same law of age-distribution which is observed for the whole population.
- (7) It appears to have no relation to the hygienic surroundings. This is especially notable when large areas such as Wales, Yorkshire, Lancashire, etc., are considered. It is, however, difficult to believe that when statistics for the different districts of the large towns are available, some relationship between hygiene and 'young adult' phthisis will not be made out. The figures for Glasgow suggest that this is the case. In general, however, it would seem that the disease is associated rather with the country than with the town.
- (8) No relationship between the amount of 'young adult' phthisis and the density of the population is found. These facts seem more or less definitely ascertained. The question seems to be, what do they signify ?
1. It would seem as if tuberculosis in childhood established some kind of immunity against phthisis in early adult life. This has been a traditional belief, and it is borne out by the negative correlation found between the amount of tubercle in milk and the amount of early phthisis.
  2. Sitting in wet clothes seems also to have an important etiological relationship.
  3. Alcoholism is also probably a factor in producing early phthisis, this disease being very common among inn-keepers.
  4. Less definitely associated statistically but certainly having a strong influence, is the nature of the food, persons insufficiently/



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insufficiently fed being more open to the virus of the disease.

b. Phthisis at 'Middle-Age' :-

- (1) There is no evidence of the special influence of wind.
- (2) It is independent of the nature of the sub-soil, as far as can be judged from the data referring to Norfolk and Suffolk.
- (3) It is more common in those districts in which there is a large number of deaths from tuberculosis in children; a definite association between the two seemed to be made out.
- (4) It is more common in districts where there is a large amount of tuberculous milk, but in this case the partial correlation coefficient was so small, that the amount present must rather be the result of similar causation than of sequence.
- (5) With regard to employment, it is especially common in certain classes of trade associated with the dust of silica.
- (6) The amount is very highly correlated with the general hygiene of the district when that is measured by the death-rate of the district.
- (7) Exactly the same result holds when the environment of 'middle age' phthisis is correlated with the density of the population.

The interpretation of these facts would seem to be:-

1. Many persons infected with tuberculosis in childhood seem, after obtaining some degree of immunity, to go through life comparatively well, the organism of tubercle, however, remaining living though in a quiescent state. As the strain of life increases, and the resistance falls, this chronic process seems in a considerable number of cases to flare up into an acute process, which results in subsequent death. This, however, would probably not account for more than two-fifths of the cases.

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2. It is to be noted that the age at which middle-aged persons die most of tubercle is the same age at which insanitary conditions have been shown to produce the most depressing effects, namely, between the ages of 40 and 50. Infection in middle age would also seem to be common, especially among workers in silica.

c. Phthisis in 'Old Age' :-

The conditions associated with it have not yet been found. It is not related to subsoil, nor to hygienic conditions, nor to density of population, nor indeed, as far as has been ascertained, to any direct external factor. It is correlated positively with phthisis in youth and negatively with phthisis in middle age, but both these correlations are small. The only association which has been made out quite definitely and beyond dispute is that it is specially common among miners, coal, iron, lead, etc., and also among the workers in the Welsh slate quarries. The cause of this association is at present quite unknown.

Brownlee concluded :-

"Reviewing the whole matter, two explanations would seem to be possible :

- a. The first is that there are two distinct strains of the bacillus of tuberculosis. These different strains of the bacillus have each a special age distribution. One of the strains attacks in early manhood and possibly also in old age, the other in childhood and middle life. The one is associated with the country and the other with the town.
- b. The second explanation is that the physiological response to attack by the organism may be different, according to the environment in which the individuals attacked have/

b. have lived.

On the first hypothesis the difficulty is that each type of organism must give a certain degree of protection against the other. This seems to be essential if the negative correlation demonstrated to exist between the amount of Tubercle in children and of 'young adult' Phthisis, and the amount of 'middle age' Phthisis is to be explained.

Some, on the other hand, may think the second assumption much more probable. On this assumption the prevalence of tuberculosis in childhood establishes some degree of immunity in those who survive. The result of this is that when the 'young adult' stage of life is reached, the disease is absent. If, on the other hand, no immunity has been established when infection takes place, the disease is often fulminant. Later, when the strain of life in cities begins to tell, those persons at the ages where the strain is most felt, namely between 40 and 50 years, tend to succumb. In the country, the health of persons at these ages is good, and consequently, death from phthisis at this age, is rare. All these factors are quite compatible with the hypothesis that wind and wet, bad food, etc., may tend to make young adults especially susceptible/

susceptible. The difficulty of this theory to my mind lies in the fact that the correlation coefficients are not sufficiently large. There are many districts in which much tuberculosis occurs both in childhood and among young adults. In like manner, there are many districts and trades in which both 'young adult' phthisis and 'middle age' phthisis are equally common.

The double origin of the disease, therefore, seems to be the more probable. The matter for the moment must be left in this state until it has been seriously tackled by the bacteriologists. Statistics alone will not give the solution."





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The object of the present investigation is to examine the statistics of Australia for evidence of the presence of the same or similar "types" of Tuberculosis and to study some possible factors, so far as the available information permits. However, a serious difficulty was met with at the outset. Brownlee's results were based on the death rates of numerous comparatively small areas, each with a fairly uniform environment, whereas the statistics for Australia are not available for smaller subdivisions than large States in each of which the environment is extremely varied. Even the statistics for the Metropolitan areas and for the Country Districts cannot be taken as truly representative in a young Country like Australia, owing to the amount of migration. Therefore, it was futile to attempt a search for a particular "type" of Phthisis in a particular area, but a study of the death rates from Pulmonary Tuberculosis in Australia during 1920-1922 kindly supplied me by the Commonwealth Statistician, and since published as Table VI. in a paper by J. H. L. Cumpston, disclosed the existence of features, which suggested the probability of the presence of such types ; these rates with the graph are included in Tables 11 and 12/

12 Appendix B and Table "a" Appendix B of this paper.

As these features could be the result of variations due to small numbers, the period investigated being a short one, and as the death rates for longer periods were unavailable, I decided to calculate the death rates for the period 1908-22. This period was chosen because the Commonwealth Statistician has, since 1908, published the summary of the statistics for the Commonwealth in the Annual Bulletin, "Australian Demography." Unfortunately, the years of the Great War are included, but the reduction in the young-adult and middle-age population due to this with the consequent increase in death rates, was not large enough to invalidate the main principle of the existence of age-group types of Tuberculosis. Migration is also an important factor in Australian statistics, but the mean population employed was based on the three censuses 1901, 1911 and 1921, and consequently the probable error due to this is negligible for the purposes of this investigation, taking into account the large numbers involved.

For comparison, the death rates from Pulmonary Tuberculosis for three years with the census of 1911 at the mid-point, were also calculated on the basis of the population at that census/

census, but this one-census method is to be used with caution when migration is an important factor.

In addition to the death rates from Pulmonary Tuberculosis, those from All Forms of Tuberculosis combined were also calculated, as the details according to occupation and to length of residence in Australia, which it was desirable to investigate, were published only for the latter; and the death rates from all causes were also calculated for comparison.

The death rates according to Occupation and Length of residence in Australia were calculated for the period 1911-22.

The only States of the Commonwealth which I have been able to investigate are Queensland, New South Wales and Victoria with further subdivision of the first two into the Metropolitan areas of the Capital cities and the remainder of the States, called in this paper, "Country Districts". The particulars of these deaths were obtained from the annual report on the Vital Statistics published by the respective State Statisticians. Those for South Australia were not available to me and in the Western Australian and Tasmanian publications the deaths from Pulmonary Tuberculosis are not given in age-groups, an omission which is to be deprecated.

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In all cases the population at the various Censuses was obtained from the official publications by the Commonwealth Statistician.

Details of the calculation of the death rates with tables are given in Appendix A. The crude ungraduated death rates have been used in every instance.

#### ANALYSIS OF DEATH RATES

In Table a, Appendix A, the male death rates from Pulmonary Tuberculosis are given in age-groups for the periods 1908-22, 1910-12 and 1920-22 and the curves representing these rates are shown on Graph a.1. The curves B and C for the 1910-12 and 1920-22 rates respectively, show a definite point of inflection at age-group 35-39, as the result of a sharp change of rate in the ascent at age-group 25-29, which therefore corresponds to a maximum. At age-group 45-49 and 55-64, maxima are definitely present. At age-group 65-69, there is a sharp change of rate in the curve of 1910-12 rates and also at age-group 70-74 in the curve of the 1920-22 rates, but the change is in opposite directions in the two curves and is therefore probably due to the use of small numbers. In the curve of the 1908-22 rates, there is a sharp change of rate at age-group 25-29, but there is also/



also a slight irregularity in the curve at age-group 35-39; this is evidently the effect of the reduction in the population at the 1921 census as a result of the Great War, as the curve of the general death rates shows the same feature, (Graph b1). The curve reaches a maximum at age-group 45-49, from there declines only slightly to age-group ~~to age-group~~ 55-59, and then descends gradually to age-group 65-69, where there is a sharp fall to a minimum. Therefore, though a second definite maximum is not shown at age-group 55-64, as in the curves of the 1910-12 and 1920-22 rates, yet the form of the curve with its broad maximum suggests <sup>that</sup> a second maximum, obscured by the grouping of the ages, exists. Three such maxima represent three simple curves each with a single maximum. The curves of the female death rates from Pulmonary Tuberculosis on Graph a2, show similar maxima, but they differ from that of the male rates by increasing rapidly to the highest maximum at age-group 25-29. From there, the three curves of female rates differ somewhat. That for 1908-22 has a projection corresponding to a maximum at age-group 45-49, that for 1910-12 has two such projections at age-group 35-39 and 45-49 respectively ; and that for 1920-22, one between/

between age-groups 35-39 and 40-44 ; the last two are probably affected by the use of small numbers. Similarly, with the 'old age' maxima. The curve for 1908-22 shows two at age-group 55-59 and 65-69 respectively, that for 1910-12 a definite maximum at age-group 65-69 and a sudden change of rate at age-group 55-59 and that for 1920-22 two maxima at age-groups 55-59 and 65-69 respectively.

In Tables C1 and C2, Appendix A, the aggregate male and female rates for Pulmonary Tuberculosis and for All Forms of Tuberculosis combined, are shown divided into "Young Adult", "Middle Age" and "Old Age" rates. The graphic method was used in making these divisions, starting with Brownlee's results as a basis. They are, therefore, empirical, but demonstrate that the general curve can be represented by simple ones as in the case of the British experience. The curves are shown on Graph c1, and show comparatively few irregularities, considering the fact that ungraduated rates have been used and that they include the years of the Great War. In both male and female curves, the 'young adult' maximum is at age-group 25-29, the 'middle age' at age-group 45-49 and the 'old age' at age-group 65-69. But the highest maximum/

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maximum in the male curves is shown by 'middle age' type, the next by the 'old age' type, and the lowest by the 'young adult' type, whereas in the female curves, the highest is shown by the 'young adult' type, the next by the 'middle age' type and the lowest by the 'old age' type. The death rates from Pulmonary Tuberculosis for males and females in various subdivisions of Australia are given in Tables d1, and d2, Appendix A, and the curves representing them, on Graphs d1 and d2. These also suggest the presence of 'types' but at varying age-groups for which an explanation cannot be given owing to the heterogeneity of each area.

The short period death with is responsible to some extent; in the case of New South Wales the deaths for the years 1906-10 only, were available to me, but in the case of Victoria and Queensland those for the years 1911-20 were used.

The values of a, b and c, the coefficients of the 'Young Adult', 'Middle Age' and 'Old Age' Types respectively, were calculated by the method of least squares, as described by Brownlee on pp. 74-75, Part 3, of "An Investigation into the Epidemiology of Phthisis in Great Britain and Ireland."

They are given in Tables d.1 and d.2,  
Appendix/

Appendix A for males and females respectively.

To illustrate, the equations for the Metropolitan Area of Sydney, males, are :-

2a	+	b	+	c	=	4
20a	+	7b	+	c	=	30
48a	+	19b	+	2c	=	74
61a	+	32b	+	3c	=	103
52a	+	47b	+	5c	=	99
41a	+	74b	+	7c	=	126
30a	+	89b	+	10c	=	139
25a	+	111b	+	20c	=	173
20a	+	98b	+	36c	=	151
17a	+	81b	+	55c	=	178
14a	+	62b	+	66c	=	173
10a	+	50b	+	48c	=	158

These equations were multiplied in turn by the respective coefficients of a, b and c, the totals for each set were added and the values of a, b and c were solved from the three resulting equations.

The values of a, b and c represent the amount of the respective type of Pulmonary Tuberculosis in each state, but the importance of the results is greatly discounted by the large heterogeneous areas dealt with. In the case of Victoria, they all approach unity.

The coefficient for the 'Young Adult' type is higher in the Metropolitan areas which are on the Coast than in the "Country Districts" ; this result corresponds with that for Great Britain.

The coefficient for the 'Middle Age' type is lower for the Metropolitan Area of Sydney than for the/



the Country Districts, but higher for the Metropolitan Areas of Brisbane than for the Country Districts. This, coupled with the very high rates for Brisbane is difficult to understand. It may be that the hot, almost tropical climate of Brisbane, and the amenities of city life attract tuberculous persons.

The coefficient for the 'Old Age' type is higher for the Metropolitan Areas than for the Country Districts.

The theoretical death rates were calculated from the values of a, b and c for the five subdivisions and are given in Table d.3, Appendix A. The results are fairly close, considering the fact that ungraduated rates have been used.

The Correlation Coefficients of the amount of Pulmonary Tuberculosis due to the three "types" in the five subdivisions, were calculated for males, using the mean population and the corresponding deaths during the period 1908-22.

The formula used was :-

$$r = \frac{\sum xy - n \bar{x} \bar{y}}{n \sigma_1 \sigma_2}$$

where  $\bar{x}$  and  $\bar{y}$  are the mean values  $\sigma_1, \sigma_2$  the standard deviations.

The results obtained were :-

Between 'Young Adult' & Middle Age' types	+	0.70
Between 'Young Adult' & 'Old Age' types	+	0.25
Between 'Middle Age' & 'Old Age' types	-	0.46

The/

The last two results correspond with those of Great Britain, but the first has a different sign. However, the paucity of data renders these results untrustworthy.

Owing to the large numbers employed in obtaining the death rates from Pulmonary Tuberculosis, and from All Forms of Tuberculosis on which the empirical 'types' were based, it was not considered necessary to calculate the maximum possible variation, which inevitably results from the use of samples, by such a method as Poisson's. However, using his formula, namely :-

$$\text{Maximum Possible Variation} = 2 \sqrt{\frac{2mn}{M^3}} \quad \text{where}$$
$$M = m+n$$

this value was calculated for the death rate from Pulmonary Tuberculosis among males at age 25-29, viz. 96, (See Table 11, Appendix B) and was found to be 5. Such a possible variation does not affect the main argument.

The death rates from Pulmonary Tuberculosis at ages 0 to 4 inclusive, were calculated by dividing the deaths from Pulmonary Tuberculosis by the Exposed to Risk obtained from the births and deaths due to all causes. The formulae for the Exposed to Risk are given with Table 65, Appendix B.

The/

The results obtained are :-

Age Yrs.	Death Rate from Pulmonary Tuberculosis per 10 <sup>5</sup>	
	Males	Females
0	10	9
1	9	7
2	5	6
3	3	3
4	3	2

These results suggest that at birth the resistance to infection is low, but that it increases year by year owing probably to the death of the susceptible with the acquirement of immunity by the survivors. Similarly this can afford an explanation of the change of rates described previously in connection with the other age-groups.

Other possible factors are, environment, geographical, geological and climatic conditions, food, alcohol, personal hygiene, and occupation. The available data permitted only of the investigation of the effects of Occupation and of length of Residence in Australia.

#### OCCUPATION

The death rates from All Forms of Tuberculosis according to the grouping of Occupation made by the Commonwealth Statistician in "Australia Demography" are given in Table E, Appendix A, and the respective curves are shown on Graph e. Details of the Commonwealth Statistician's grouping are also given in/

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in Appendix A. The values of a, b and c , the coefficients of the three types, are also shown, having been calculated in the same way as described above. The Professional Class has a large amount of the 'young adult' type. This could be the effect of occupation or the occupation might be chosen on account of the physical weakness.

The Domestic Class has a large amount of the 'Middle age' type, and an average amount of the 'young adult' type.

The 'Mercantile Class' has a large amount of the 'young adult' type.

The class associated with Transport and Communication has a large amount of the 'young adult' but a larger amount of the 'old age' type.

The Manufacturing Class, and the class associated with Building Construction have a predominance of the 'old age' type.

The Other Industrial Workers show an increase of all types above the average, but a predominance of the 'middle age' type.

The Agricultural Class shows a decrease of all types below the average, but a predominance of the 'old age' type.

The Pastoral Class shows a decrease of all types below the average, but the 'young adult' type represents the highest mortality.

Workers/



Workers in Mines and Quarries show a negative value for the 'young adult' type, a value above the average for the 'middle age' type and the highest value for the 'old age' type.

Other Primary Producers show a diminution of all types below the average, but the highest value for the 'old age' type. In the case of the class with Independent Means and the Dependents, the 'young adult' type is predominant and the 'old age' type negative.

These results on the whole show a similarity with the British Experience.

In the calculation of death rates according to Occupation, there was a double chance of error, owing to the fact that classification of the deaths and of the population was done of necessity, separately, but this is inevitable.

In the case of Gold Mining, two sets of Experience are available, namely one by D. G. Robertson of the Commonwealth Health Department, into the incidence of Pulmonary Tuberculosis at Bendigo, Victoria. His notification rates for 1905-19 are based on small numbers and were calculated by a rough method of using one census, not at mid-point of the period of which the deaths were used, but show, among males, a moderate amount of the 'middle age' type and a predominance of/  
of/

of the 'old age' type, and among females, a predominance of the 'young adult' type.

The rates are shown in Table e.1, Appendix A.

The other <sup>ve</sup>instigation was made by a Commission appointed by the Government of New South Wales in 1919 to inquire into the amount of Pneumocomosis at Broken Hill. Their rates, of the incidence of those suffering from Pneumocomosis with and without Tuberculosis are given in Table e.1, Appendix A. They are based on small numbers but show a maximum at age-group 46-50 ; this would cofrespond with mortality of the 'old age' type.

#### LENGTH OF RESIDENCE IN AUSTRALIA

The death rates from all forms of Tuberculosis according to length of Residence in Australia, for males and females, are given on Tables g.1 and g.2, Appendix A, and the values of a, b and c, the coefficients of the amount of the three types are also shown.

Among both males and females, the rates for length of Residence 15-19 years are obviously unreliable. The other values for a, b and c show, from length of Residence 10-14 yrs. an increase of the 'young adult' type and 'middle age' type, as the length of Residence in Australia diminishes ; and a diminution of the 'old age' type.

These/

These results are complicated by the fact that many come to Australia owing to the presence of a tuberculous diathesis, in spite of immigration restrictions.

### SUMMARY OF CONCLUSIONS

There is statistical evidence of the presence of age-types of Tuberculosis in Australia as found by Brownlee, in Great Britain. In Australia, however, the 'young adult' and 'old age' types would appear to occur at a later age in Australia, the 'young adult' having a maximum at age-group 25-29, the 'middle age' at age-group 45-49, and the 'old age' at age-group 65-69 in both males and females.

In males, the highest maximum is shown by the 'middle age' type, the next by the 'old age' type and the lowest by the 'young adult' type, whereas in females, the highest is shown by the 'young adult' type, the next by the 'middle age' type, and the lowest by the 'old age' type.

The subdivisions of Australia investigated, also show the presence of such types, but the available information was too meagre to enable it to be ascertained, what, if any, influence, was produced by environment, geographical, geological and climatic conditions, food, alcohol or personal hygiene. The high coefficient for the 'young adult' type in the Metropolitan/

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Metropolitan Areas which are on the coast, correspond with the British Experience and suggest that exposure to wet and wind might have an influence in producing or ~~ag~~gravating this 'type'.

The effect of deficient light, impure air, and overcrowding could not be investigated in Australia <sup>as</sup> ~~and~~ the reverse features are more prominent.

The results for Occupation are interesting, and show that Occupation has some effect, but the classifications are so general that from the present point of view, the detailed conclusions are not clear. Then again, the choice of occupation may be the result of physical unfitness. This is particularly indicated in the case of the Professional Class. Exposure to wet and wind would seem to have an influence on the 'young adult' type. The Domestic Class show a prominent 'middle age' type, in which, therefore, hygienic factors would seem to be important.

Mining shows a high 'old age' type. These results are in agreement with the British Experience.

The results for Length of Residence in Australia, namely the decrease in the 'young adult' and 'middle age' types, with increase of Length of Residence in Australia, and a corresponding/



corresponding increase of the 'old age' type could indicate that the tuberculous diathesis was the cause of the migration.

The correlation coefficients calculated for the three types are unreliable owing to the meagre data available. The death rates from Pulmonary Tuberculosis during infancy and childhood showed a maximum at birth and a continuous decrease to age 3 yrs.

As to the cause of these types, so far as this investigation is concerned, they could be explained by the death of those affected and the development of immunity among survivors occurring in waves of age-periods. At birth, the immunity is low, but gradually waxes and wanes from there as indicated by the waves of the types at childhood, young adult age, middle age and old age.

I am greatly indebted, in connection with this paper, to the Commonwealth Statistician for various statistics and to the Registrar General of Queensland, for the use of his Official Library and the courteous assistance of his staff.

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  10. "Elements of Statistics" Bowley, 4th Edition, 1920.
  11. "The Construction of Mortality & Sickness Tables", Elderton & Fippard, 1914.
  12. "The Systematic Use of Poisson's Formula"  
by G. de M. Rudolf - Lancet 10 : 6 : 22,  
p. 1146.
  13. "The Uses of Poisson's Formula" by G. de M. Rudolf, Lancet 2 : 12: 22, p. 1162.
  14. Statistical Review of Tuberculosis in Australia - The Supplement to the Medical Journal of Australia, 19 :4:24, p. 237.
-

METHOD OF CALCULATIONS WHERE REQUIRED.

Table 2 : The unspecified were distributed in the same proportion in Census, 1921 as in Census 1911. The Commonwealth Statistician's adjustment has since been published, but I did not consider it necessary to repeat the heavy task of calculations. The Censuses were considered to have been taken at 31st. March, the resulting error being trifling.

Tables 3, 3A, 4 & 4A : The Total Population was considered to increase by geometrical progression between the Censuses and the Mean total was obtained from the Formula :

$$\text{Mean Popn.} = P \cdot \frac{r-1}{\log r} \times (.434\dots)$$

where P = Population at the first Census

" rP = Population at the second Census

& the log. is the common log. to base 10

(See "Construction of Mortality & Sickness Tables" by Elderton & Fippard, 1914, page 58.)

The populations at age-groups were considered to increase by arithmetical progression.

The columns are self-explanatory.

Tables 11 & 12 : The period 1909-12 in Cols. 9 and 10, comprise  $\frac{1}{4}$  x 1909, 1910, 1911, and  $\frac{3}{4}$  x 1912 and so has been designated 1910-12 in the text. Similarly in the case of Tables, re Occupation & Length of Residence in Australia.

In the remaining Tables : The Mean Population has been taken as that at the midpoint of the period, the total population increasing by geometrical progression and the population in age-groups by arithmetical progression.

Central Death Rates =

$$\frac{\text{Annual Number of Deaths}}{\text{Mean Population}}$$

Tables 34 - 40 : The Population according to Occupation is not yet available for Census 1921. Consequently the Mean Population was calculated approximately by multiplying the Population at Census 1911, by the ratio of increase among the general population.

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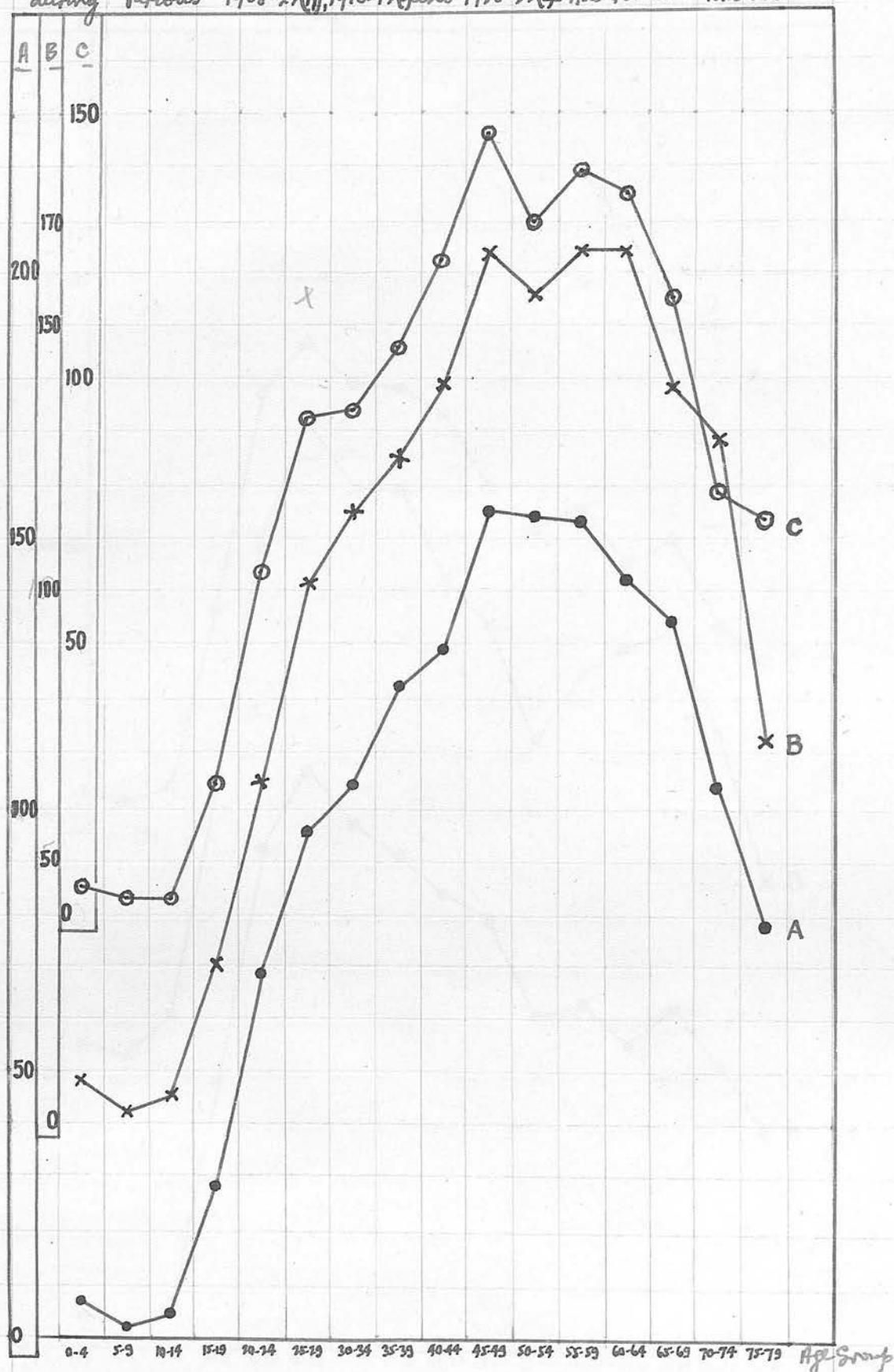
# 1/ APPENDIX A - TABLE 2

Commonwealth of Australia  
Central Death Rates from Pulmonary Tuberculosis  
during periods 1908-11, 1910-12 and 1920-22

Age Group - Years	Males			Females		
	Death Rates per 100,000			Death Rates per 100,000		
	1908-11	1910-12	1920-22	1908-11	1910-12	1920-22
	(1)	(2)	(3)	(4)	(5)	(6)
0-4	7	8	6	6	7	3
5-9	2	2	3	3	4	2
10-14	4	5	3	9	12	6
15-19	28	30	25	49	56	38
20-24	69	65	63	93	101	78
25-29	96	101	92	108	123	88
30-34	104	115	94	98	110	80
35-39	122	125	107	92	110	79
40-44	129	139	122	85	94	74
45-49	156	163	147	80	86	60
50-54	154	156	130	62	63	53
55-59	153	164	139	64	77	57
60-64	142	164	135	57	81	47
65-69	134	138	115	63	84	51
70-74	104	128	79	52	65	35
75-79	78	72	73	40	38	29
80+	46	41	47	26	35	15

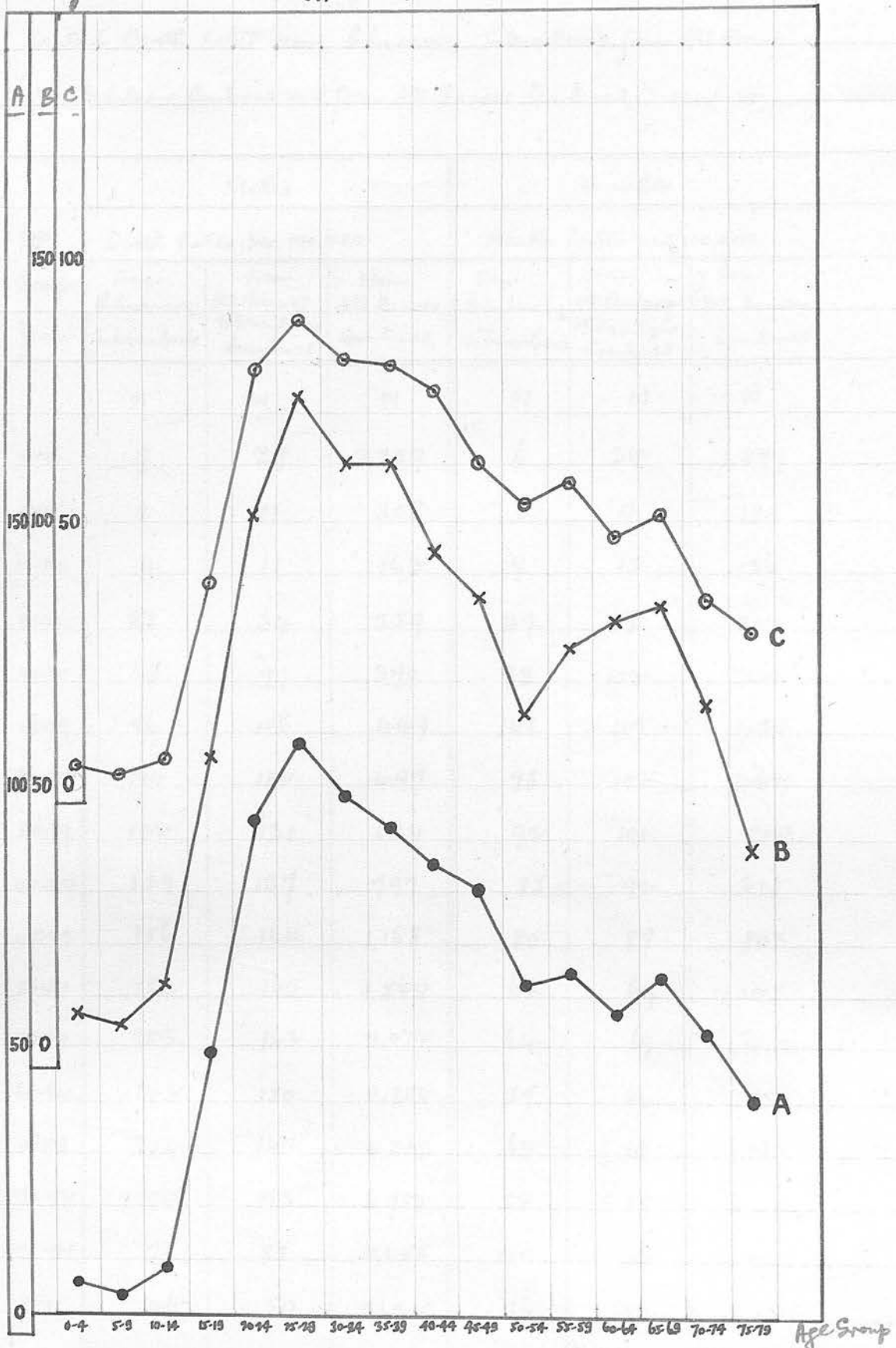
# 2 GRAPH 21

curves of Central Death Rates from Pulmonary Tuberculosis during Periods 1908-27(A), 1910-17(B) and 1920-27(C) Australia - Males.



## GRAPH 22

*Curves of Central Death Rates from Pulmonary Tuberculosis during Periods 1908-11(A), 1910-11(B) and 1920-21(C) Australia - Females.*



4

APPENDIX A - TABLE b.

*Commonwealth of Australia.*

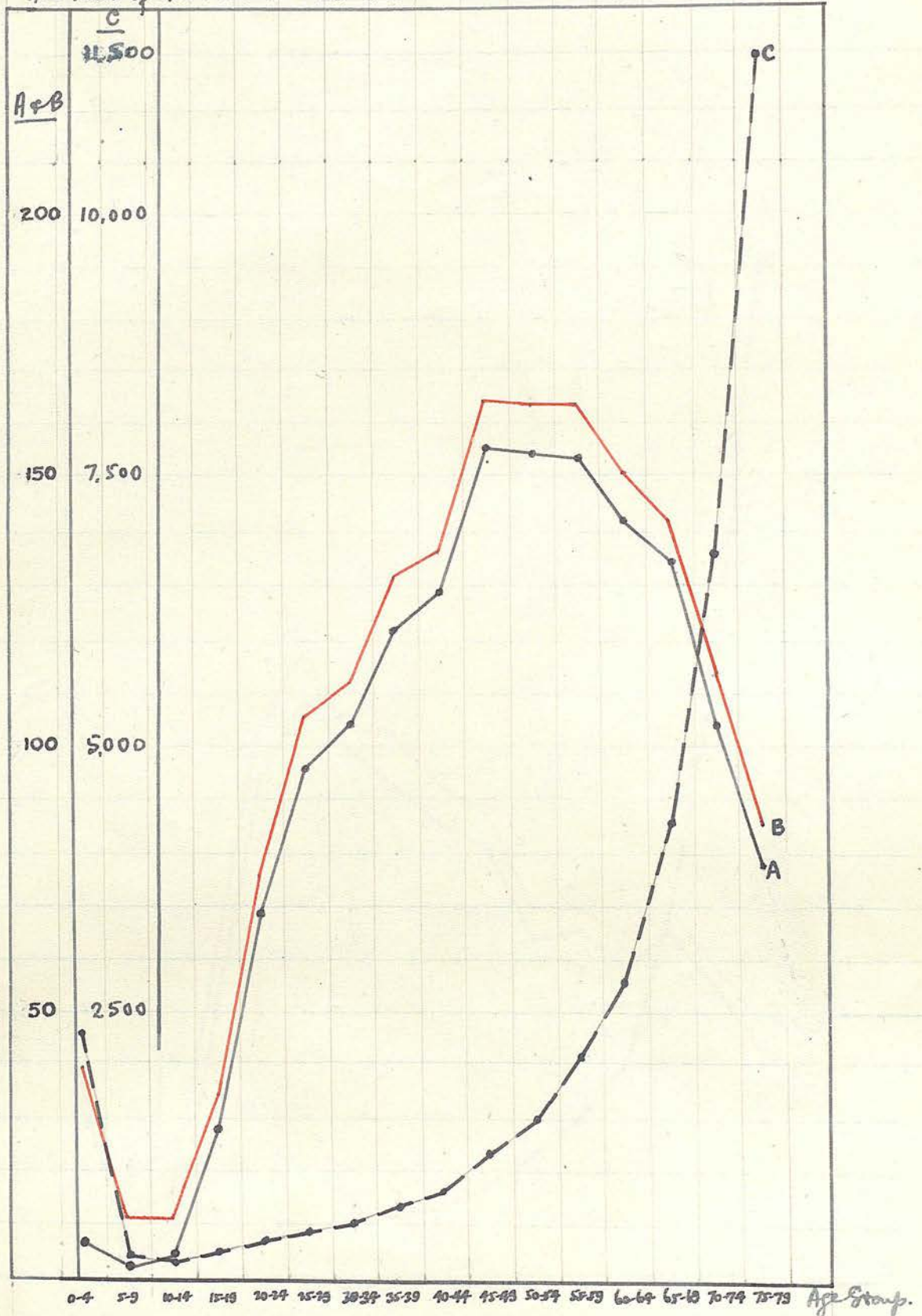
*Central Death Rates from Pulmonary Tuberculosis, from All Forms of Tuberculosis Combined and from All causes combined. 1908-22*

Age Group- Years	Males			Females		
	Death Rates per 100,000			Death Rates per 100,000		
	From Pulmonary Tuberculosis	From All Forms of Tuberculosis Combined	From All causes Combined	From Pulmonary Tuberculosis	From All Forms of Tuberculosis Combined	From All causes Combined
	(1)	(2)	(3)	(4)	(5)	(6)
0-4	7	39	2,329	6	34	1,897
5-9	2	11	208	3	11	189
10-14	4	11	163	9	15	136
15-19	28	34	259	49	58	219
20-24	69	77	370	93	102	342
25-29	96	106	449	108	117	430
30-34	104	112	497	98	102	462
35-39	122	131	634	92	101	557
40-44	129	137	797	85	92	618
45-49	156	164	1,168	80	87	803
50-54	154	163	1,524	62	69	1,045
55-59	153	163	2,072	64	69	1,410
60-64	142	150	2,854	57	64	1,950
65-69	134	142	4,303	63	68	3,261
70-74	104	113	6,782	52	57	5,514
75-79	78	85	11,455	40	46	9,435
80+	46	50	21,211	26	30	18,627



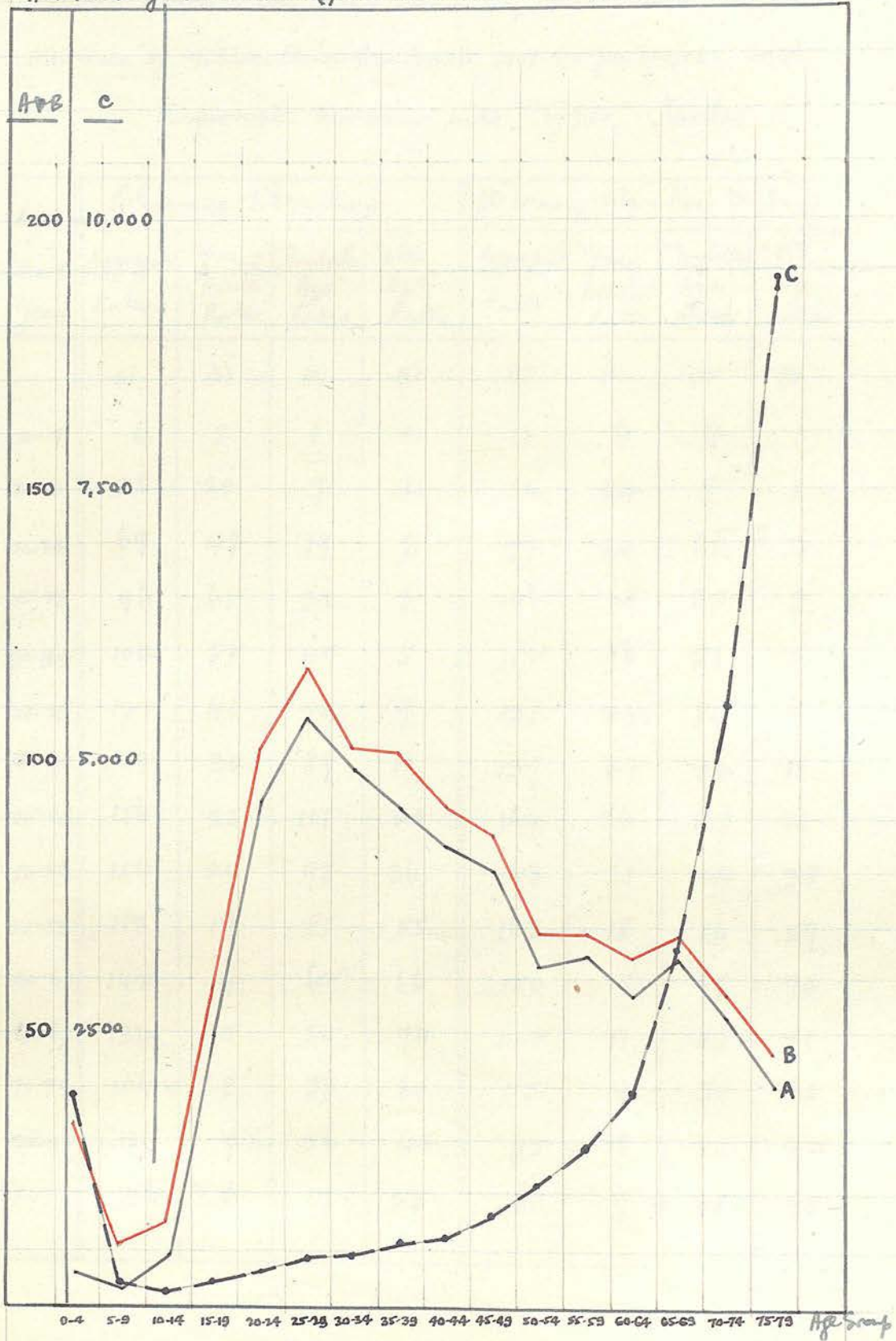
# GRAPH b1

Curves of Central Death Rates from Pulmonary Tuberculosis (A)  
All Forms of Tuberculosis (B) and All Causes Combined (C) Australia 1908-22-Males.



# GRAPH b 2

Curves of Central Death Rates from Pulmonary Tuberculosis (A),  
All Forms of Tuberculosis (B) and All Causes Combined (C) Australia 1908-22 Females



# APPENDIX A - Table C1

Commonwealth of Australia.

Central Death Rates from Pulmonary Tuberculosis and from  
All Forms of Tuberculosis combined 1908-22 per 100,000 with

Empirical Division into "Types." - Males

Age Group Years	Pulmonary Tuberculosis				All Forms of Tuberculosis Combined			
	Aggregate Rates	"Young Adult" Rates	"Middle Age" Rates	"Old Age" Rates	Aggregate Rates	"Young Adult" Rates	"Middle Age" Rates	"Old Age" Rates
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
10-14	4	2	1	1	11	6	4	1
15-19	28	20	7	1	34	24	9	1
20-24	69	48	19	2	77	54	21	2
25-29	96	61	32	3	106	68	35	3
30-34	104	57	47	5	112	56	51	5
35-39	122	41	74	7	131	44	80	7
40-44	129	30	89	10	137	37	94	11
45-49	156	25	111	20	164	26	117	21
50-54	154	20	98	36	163	21	104	38
55-59	153	17	81	55	163	18	86	59
60-64	142	14	62	66	150	15	65	70
65-69	134	10	50	74	142	11	53	78
70-74	104	8	36	60	113	9	39	65
75-79	78	7	26	45	85	8	28	49
80+	46	6	17	23	50	7	18	25



# APPENDIX A - TABLE C2

Commonwealth of Australia.

Central Death Rates from Pulmonary Tuberculosis and from  
All Forms of Tuberculosis combined 1908-22 per 100,000 with

Empirical Division into "Types" - Females.

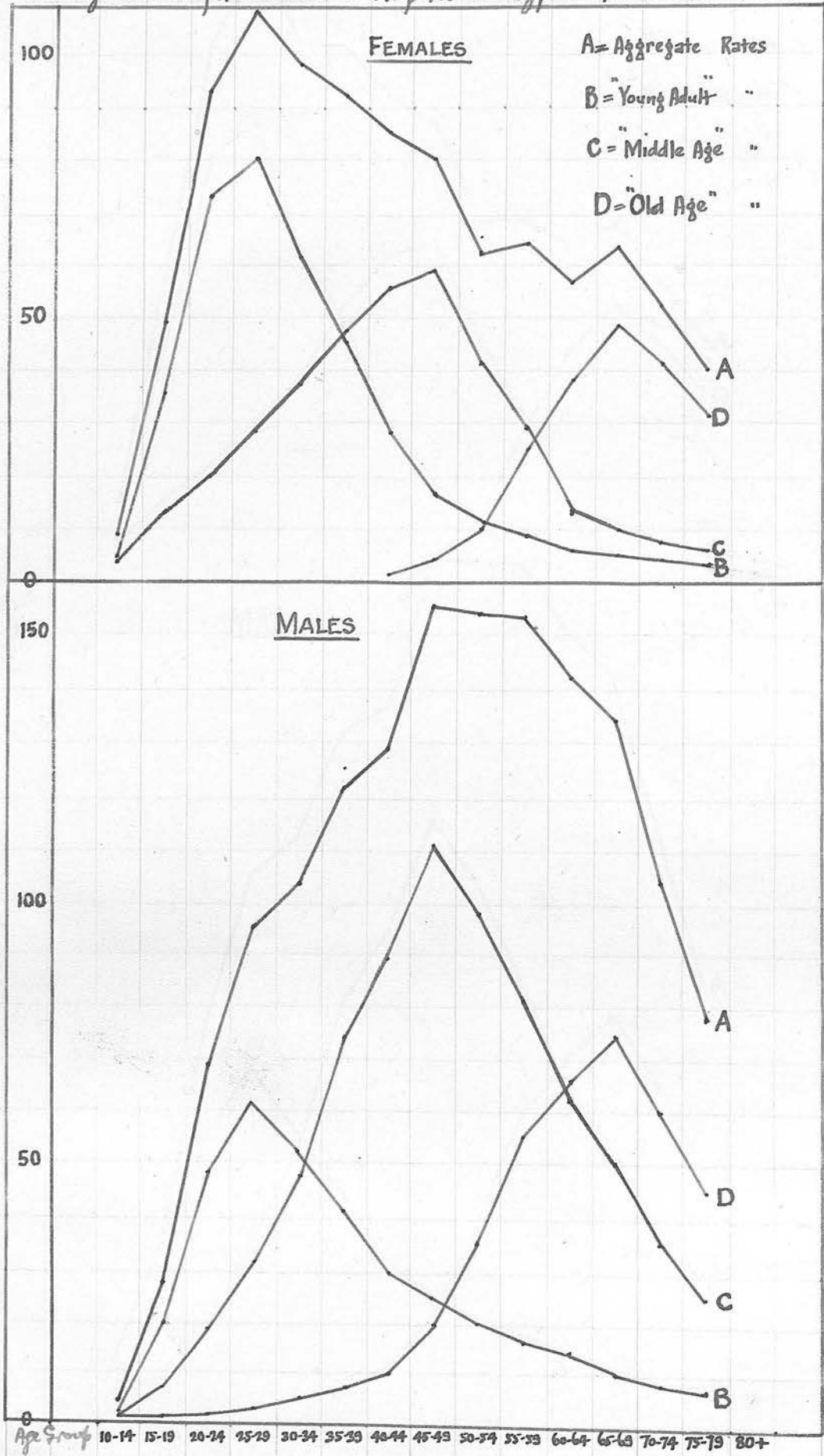
Age Group - Years	Pulmonary Tuberculosis				All Forms of Tuberculosis combined			
	Aggregate Rates	"Young Adult" Rates	"Middle Age" Rates	"Old Age" Rates	Aggregate Rates	"Young Adult" Rates	"Middle Age" Rates	"Old Age" Rates
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
10-14	9	5	4	0	15	8	7	0
15-19	49	36	13	0	58	43	15	0
20-24	93	73	20	0	102	80	22	0
25-29	108	80	28	0	117	87	30	0
30-34	98	61	37	0	102	63	39	0
35-39	92	45	47	0	101	49	52	0
40-44	85	28	56	1	92	30	61	1
45-49	80	17	59	4	87	19	64	4
50-54	62	11	41	10	69	12	46	11
55-59	64	9	29	26	69	10	31	28
60-64	57	6	13	38	64	7	14	43
65-69	63	5	10	48	68	5	11	52
70-74	52	4	7	41	57	4	8	45
75-79	40	3	6	31	46	3	7	36
80+	26	2	4	20	30	2	5	23



# GRAPH CI

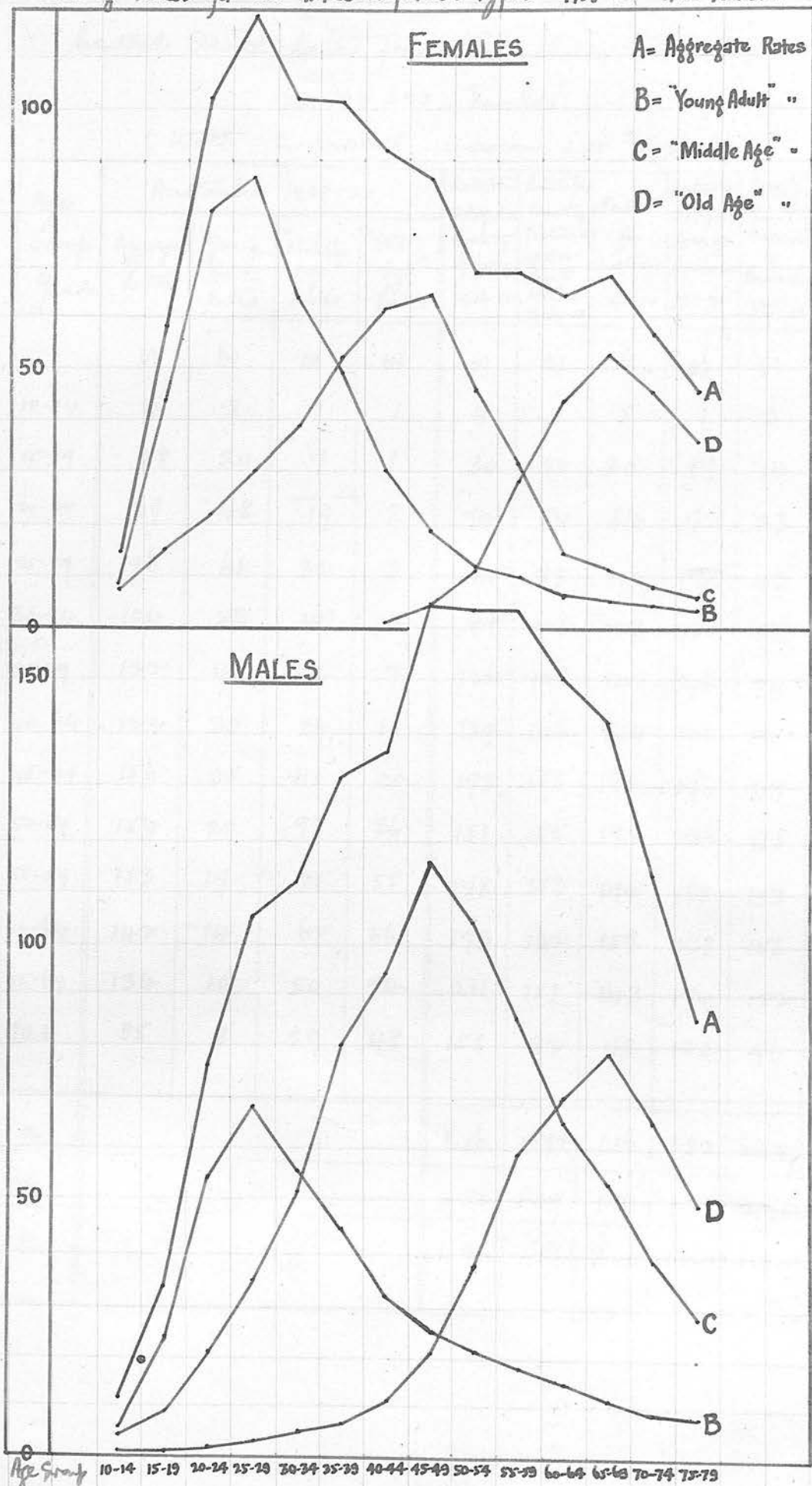
9

Curves of Central Death Rates from Pulmonary Tuberculosis  
and of Rates for the Three Empirical "Types" 1908-22 - Australia



# GRAPH C2

curves of central Death Rates from All Forms of Tuberculosis Combined  
and of Rates for the Three Empirical "Types" - 1908-22 - Australia.



# APPENDIX A - TABLE d 1

Commonwealth of Australia and Subdivisions.  
 Central Death Rates from Pulmonary Tuberculosis  
 per 100,000 - Males.

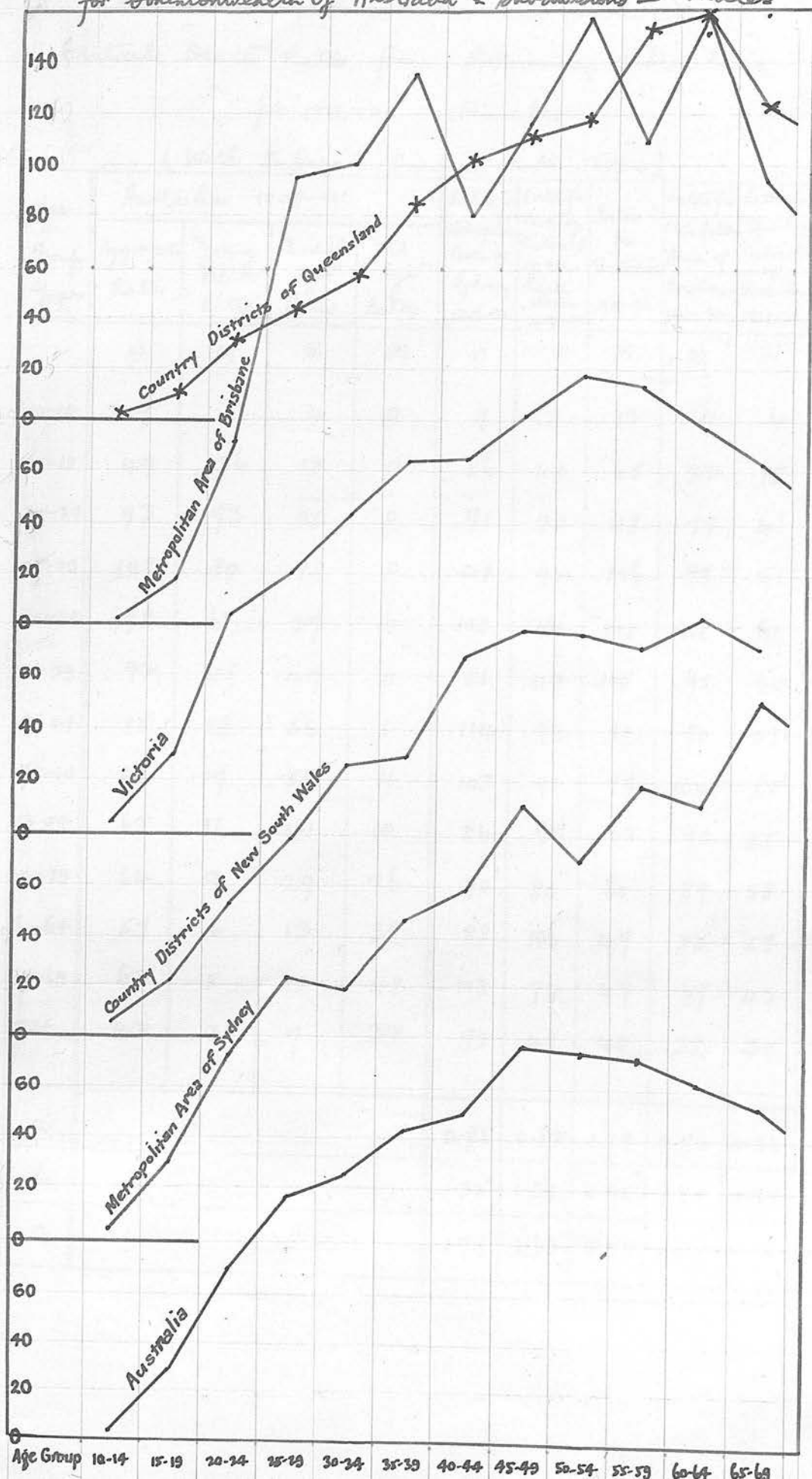
(With Empirical Division into "Types".)

Age Group Years	Australia 1908-22				Rates for Metropolitan Area of Sydney 1906-10	Rates for Country Districts of New South Wales 1906-10	Rates for Victoria 1911-20	Rates for Metropolitan Area of Brisbane 1911-20	Rates for Country Districts of Queensland 1911-20
	Aggregate Rates	"Young Adult" Rates	"Middle Age" Rates	"Old Age" Rates					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
10-14	4	2	1	1	4	5	5	1	2
15-19	28	20	7	1	30	21	30	17	10
20-24	69	48	19	2	74	54	84	72	33
25-29	96	61	32	3	103	79	100	175	43
30-34	104	52	47	5	99	105	123	180	57
35-39	122	41	74	7	126	108	143	216	84
40-44	129	30	89	10	139	146	144	160	101
45-49	156	25	111	20	173	158	161	196	113
50-54	154	20	98	36	151	156	177	236	118
55-59	153	17	81	55	178	153	174	188	153
60-64	142	14	62	66	173	162	157	238	158
65-69	134	10	50	74	211	151	143	174	122
70+	85	8	29	48	158	82	78	120	96
a					1.16	0.72	1.16	1.82	0.29
b					0.80	1.09	1.11	1.28	0.78
c					1.96	1.13	1.06	1.46	1.35

GRAPH C I

123

*Curves of Central Death Rates from Pulmonary Tuberculosis  
for Commonwealth of Australia & Subdivisions - Males*





13

## APPENDIX A - TABLE d 2

Commonwealth of Australia and Subdivisions.  
 Central Death Rates from Pulmonary Tuberculosis  
 per 100,000 — Females

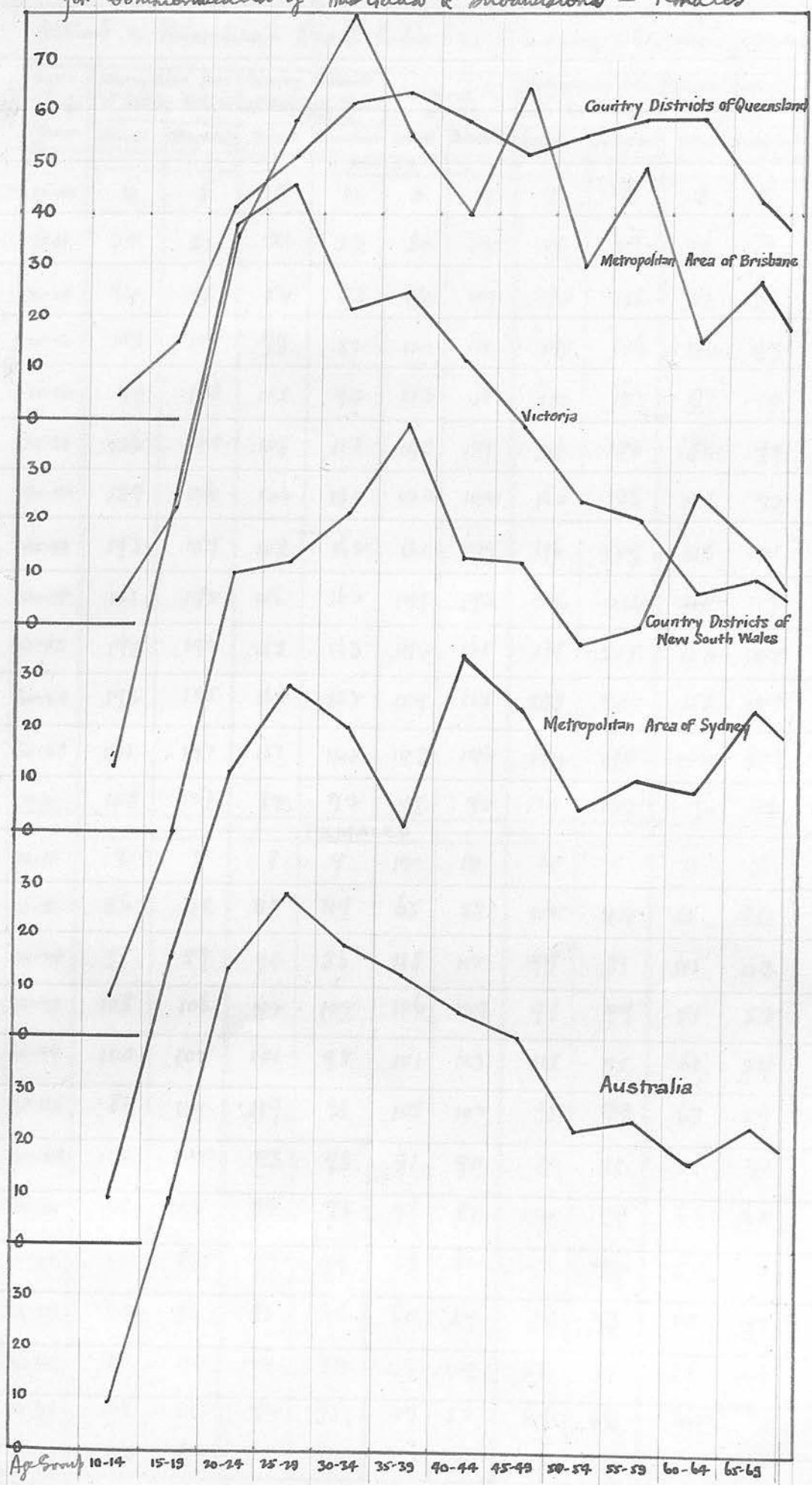
(With Empirical Division into Types).

Age Group Years	Australia 1908-22				Rates for Metropolitan Area of Sydney 1906-10	Rates for Country Districts of New South Wales 1906-10	Rates for Victoria 1911-20	Rates for Metropolitan Area of Brisbane 1911-20	Rates for Country Districts of Queensland 1911-20
	Aggregate Rates	"Young Adult" Rates	"Middle Age" Rates	"Old Age" Rates					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
10-14	9	5	4	0	9	8	12	4	4
15-19	49	36	13	0	56	40	65	22	15
20-24	93	73	20	0	91	90	118	77	41
25-29	108	80	28	0	108	92	126	98	51
30-34	98	61	37	0	100	101	101	118	61
35-39	92	45	47	0	81	119	105	95	63
40-44	85	28	56	1	114	93	91	80	58
45-49	80	17	59	4	103	92	79	104	51
50-54	62	11	41	10	84	77	63	70	55
55-59	64	9	29	26	90	80	60	89	58
60-64	57	6	13	38	88	106	47	55	58
65-69	63	5	10	48	103	94	49	67	42
70+	42	3	7	32	72	48	40	38	30
a					0.85	0.82	1.28	0.73	0.34
b					1.35	1.31	0.95	1.37	0.89
c					1.77	1.63	0.76	1.02	0.86

GRAPH d 2

14

Curves of Central Death Rates from Pulmonary Tuberculosis  
for Commonwealth of Australia & Subdivisions - Females



## Subdivisions of Commonwealth of Australia.

Actual &amp; Theoretical Death Rates from Pulmonary Tuberculosis per 100,000

Age-Group Years	Metropolitan Area of Sydney 1906-10		Country Districts of New South Wales 1906-10		Victoria 1911-20		Metropolitan Area of Brisbane 1912		Country Districts of Queensland 1911-20	
	Actual	Theoretical	Actual	Theoretical	Actual	Theoretical	Actual	Theoretical	Actual	Theoretical
MALES										
10-14	4	5	5	4	5	4	1	6	2	3
15-19	30	31	21	23	30	32	17	47	10	13
20-24	74	75	54	58	84	79	72	115	33	31
25-29	103	102	79	82	100	112	175	156	43	47
30-34	99	108	105	94	123	118	180	162	57	79
35-39	126	120	108	118	143	137	216	180	84	79
40-44	139	126	146	130	144	144	160	183	101	92
45-49	173	157	158	162	161	173	196	217	113	121
50-54	151	172	156	162	177	170	236	214	118	117
55-59	178	192	153	163	174	168	188	215	153	142
60-64	173	195	162	152	157	155	238	201	158	142
65-69	211	197	151	145	143	146	174	190	122	142
70+	158	127	82	92	78	92	120	122	96	90
FEMALES										
10-14	9	8	8	9	12	10	4	9	4	5
15-19	56	48	40	47	65	58	22	44	15	24
20-24	91	89	90	86	118	112	77	81	41	43
25-29	108	106	92	102	126	129	98	97	51	52
30-34	100	102	101	98	101	113	118	95	61	54
35-39	81	119	119	98	105	102	95	97	63	57
40-44	114	102	93	98	91	90	80	98	58	60
45-49	103	102	92	98	79	81	104	97	51	62
50-54	84	82	77	79	63	61	70	74	55	49
55-59	90	93	80	88	60	59	89	73	58	51
60-64	88	90	106	84	47	49	55	61	58	46
65-69	103	103	94	95	49	52	67	66	42	52
70+	72	69	48	64	40	35	38	64	30	35

APPENDIX A - TABLE E.

Commonwealth of Australia.

Central Death Rates from All Forms of Tuberculosis Combined,  
according to Occupation 1911-22 - Males.

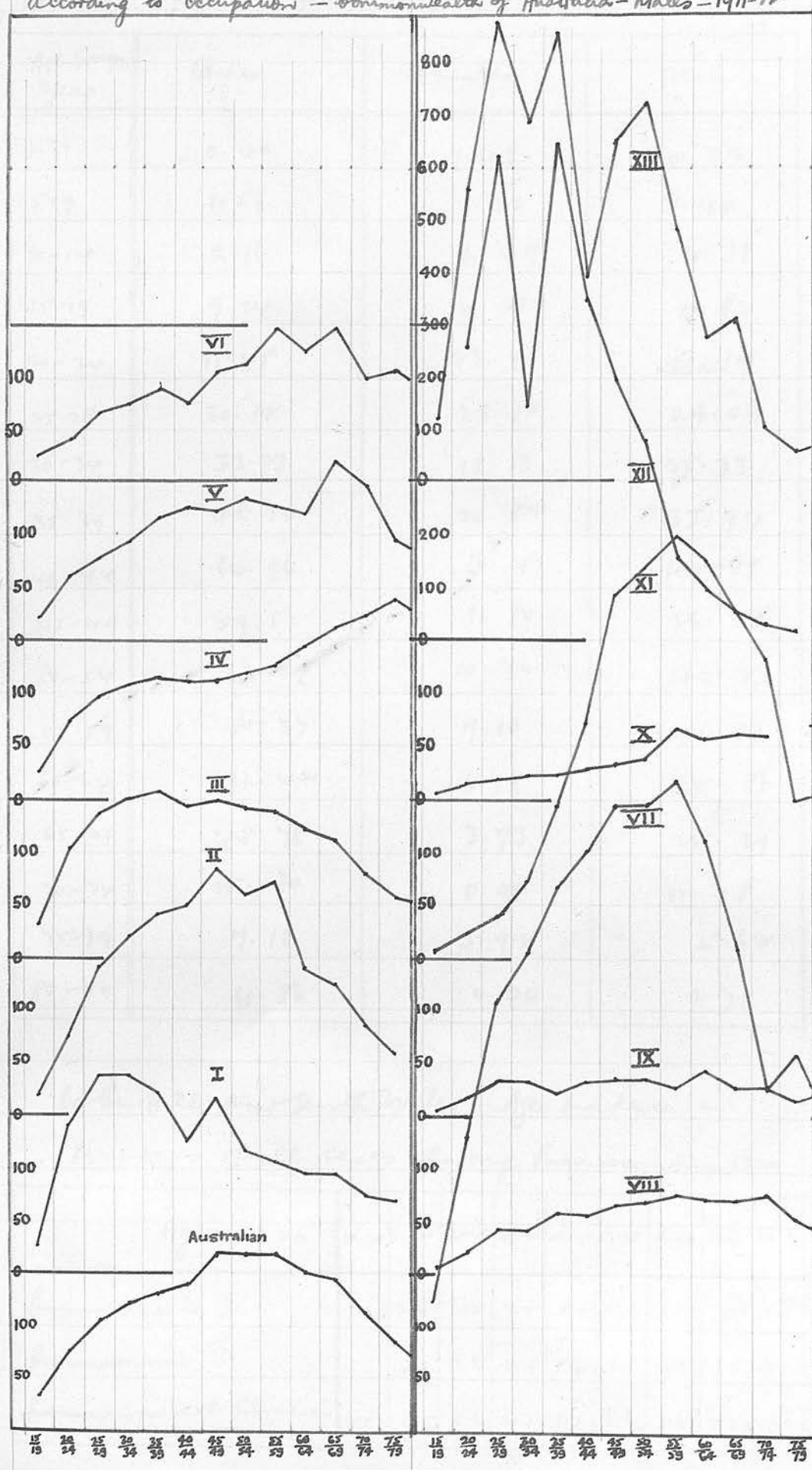
Age Group years	Death Rates per 100,000															
	Commonwealth of Australia				Occupational Class											
	Aggregate Rate	Young Adult Rates	"Middle Age" Rates	"Old Age" Rates	I Professional	II Domestic	III Mercantile	IV Transport & Communication	V Manufacturing	VI Building Construction	VII Other Industrial Workers	VIII Agricultural	IX Pastoral	X Work in Mines & Quarries	XI Other Industries	XII All dependent Means
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Under 15					-	-	-	12	1	-	-	-	-	-	-	21
15-19	34	24	9	1	25	17	35	32	19	23	124	7	5	7	7	119
20-24	77	54	21	2	147	76	107	73	67	41	284	19	17	23	14	560
25-29	106	68	35	3	187	141	138	97	78	66	404	46	35	38	16	874
30-34	117	56	51	5	186	171	150	108	89	76	453	44	33	77	19	685
35-39	131	44	80	7	177	189	156	116	117	85	577	89	23	145	21	867
40-44	137	32	94	11	127	199	142	117	128	78	551	56	33	219	37	397
45-49	164	26	117	21	163	235	149	114	118	103	593	66	36	344	33	655
50-54	163	21	104	38	114	209	140	120	134	110	598	77	36	368	38	721
55-59	163	18	86	59	107	219	136	126	127	146	613	82	27	398	64	480
60-64	150	15	65	70	97	142	120	142	121	125	563	74	44	382	56	278
65-69	142	11	53	78	96	125	113	161	167	147	462	74	28	327	60	307
70-74	113	9	39	65	77	85	81	174	146	99	328	82	27	276	57	104
75-79	85	8	28	49	71	57	54	188	98	107	355	54	14	150	-	56
80+	50	7	18	25	-	41	51	104	44	44	194	47	38	161	189	100
a					+239	+0.99	+1.62	+1.39	+0.86	+0.67	+239	+0.38	+0.48	-1.05	+0.22	+9.52
b					+0.65	+1.83	+0.88	+0.26	+0.66	+0.49	+4.64	+0.36	+0.07	+2.56	+0.09	+3.49
c					+0.33	+0.19	+0.53	+1.97	+1.33	+1.37	2.73	+0.77	+0.27	+2.91	+0.83	-3.70



# GRAPH C

17

Curves of Central Death Rates from All Forms of Tuberculosis Combined according to Occupation - Commonwealth of Australia - Males - 1911-12.



Age Group

TABLE C1

18

Average Notification Rates 1905-19 of Pulmonary Tuberculosis per 10,000 living at each age in Berkeley District, Victoria, 1911.

Age Groups Years	Males	Females	Total
0-5	0.40	1.48	0.92
5-9	1.58	1.22	1.40
10-14	2.16	6.49	4.38
15-19	9.24	14.21	11.82
20-24	18.45	23.48	21.19
25-29	30.12	28.12	29.09
30-34	33.23	18.13	25.33
35-39	48.74	20.52	33.94
40-44	64.96	16.27	40.65
45-49	59.57	11.80	36.31
50-54	68.24	10.70	40.23
55-59	80.27	7.10	41.93
60-64	91.42	6.58	45.86
65-69	48.78	3.73	25.29
70-74	25.80	0.00	11.78
75-79	7.18	3.92	5.62
80-90	4.86	0.00	2.71

Broken Hill, New South Wales - Age incidence in  
Percentages of all cases showing Pneumoconiosis 1920

Ages years	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70
Pneumoconiosis I	1.0	3.6	6.2	7.2	8.2	7.2	7.2	4.1	1.5
Pneumoconiosis II	—	1.0	3.6	4.1	5.6	3.1	3.1	1.5	0.5
Pneumoconiosis with Tuberculosis	—	0.5	5.6	6.7	7.7	3.6	3.6	2.1	1.0

## list of Occupations - Table 27

Class I - Professional: General Government, Local Government, Defence, Law & Order, Religion, Health, Literature, Science, Civil Engineering, Architecture & Surveying, Education, Fine Arts, Music & Amusements.

Class II - Domestic: Hotel keepers & Assistants, others engaged in providing board & lodging, Coachmen & Grooms, Hairdressers, Laundrymen, others engaged in Domestic Service.

Class III, Mercantile (Commercial): Banking & Finance, Insurance & Valuation, Land & Household Property, Books, Publications & Advertising, Musical Instruments, Prints, Pictures & Art Materials, Ornaments & Jewellery etc.

Class IV, Transport & Communication: Aviation, Railway Traffic, Tramway Traffic, Road Traffic, Sea & River Traffic, Postal Service, Telegraph & Telephone Service, Messengers etc..

Class V Manufacturing: Ship, Boats & Equipment, Arms & Ammunition, Furniture etc.

Class VI, Building Construction: Builders, Stone masons, Bricklayers, Carpenters, Platers, Plasterers, Painters & Glaziers, Plumbers, Signwriters.

Class VII, Other Industrial Workers: Manufacturers, Engineers, Firemen, Contractors, Labourers & Undefined & others.

Class VIII, Agricultural:

Class IX, Pastoral:

Class X, Workers in Mines & Quarries:

Class XI, Other Primary Producers: Dairy Farming, Bees, Fishes & Wild Animals, Forestry, Water Conservation & Supply.

The above are given in more detail in "Australian Demography" 1972. pp 118-119.

APPENDIX A - TABLE f1

Commonwealth of Australia.

Central Death Rates per 100,000 from All Forms of Tuberculosis  
Combined according to length of residence in Australia -

1911-22, 1910-12 and 1920-22 - Males

[illegible]





# APPENDIX A-TABLE 81

Commonwealth of Australia.

Central Death Rates from All Forms of Tuberculosis combined according to length of residence in Australia 1911-22- Males

Age Group	Death Rates per 100,000									
	Commonwealth of Australia 1908-22				Length of Residence in Australia					
	Aggregate Rates	"Young Adult" Rates	"Middle Age" Rates	"Old Age" Rates	Born in Australia	Born outside Australia, but resident in Australia -				
						20+ yrs	15-19 yrs	10-14 yrs	5-9 yrs	0-4 yrs.
Years	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0-4					36	-	-	-	-	56
5-9					11	-	-	-	14	34
10-14	11	6	4	1	10	-	-	5	7	25
15-19	34	24	9	1	31	-	40	8	37	70
20-24	77	54	21	2	72	66	47	58	91	134
25-29	106	68	35	3	96	82	54	88	137	215
30-34	117	56	51	5	104	130	137	88	158	253
35-39	131	44	80	7	123	120	154	134	184	261
40-44	137	32	94	11	129	115	159	134	189	276
45-49	164	26	117	21	147	142	231	159	160	274
50-54	163	21	104	38	143	159	238	169	136	249
55-59	163	18	86	59	152	153	293	163	201	118
60-64	150	15	65	70	126	150	347	229	131	148
65-69	142	11	53	78	105	138	410	178	161	164
70-74	113	9	39	65	83	96	607	268	138	257
75-79	85	8	28	49	83	67	-	-	-	-
80+	50	7	18	25	64	42	-	-	-	-
a					+0.93	+0.90	-3.11	+0.67	+1.41	+2.58
b					+0.95	+0.92	+6.75	+0.91	+1.21	+1.40
c					+0.73	+0.95	-6.09	+1.76	+0.60	+0.54

# APPENDIX A - TABLE 2

Commonwealth of Australia.

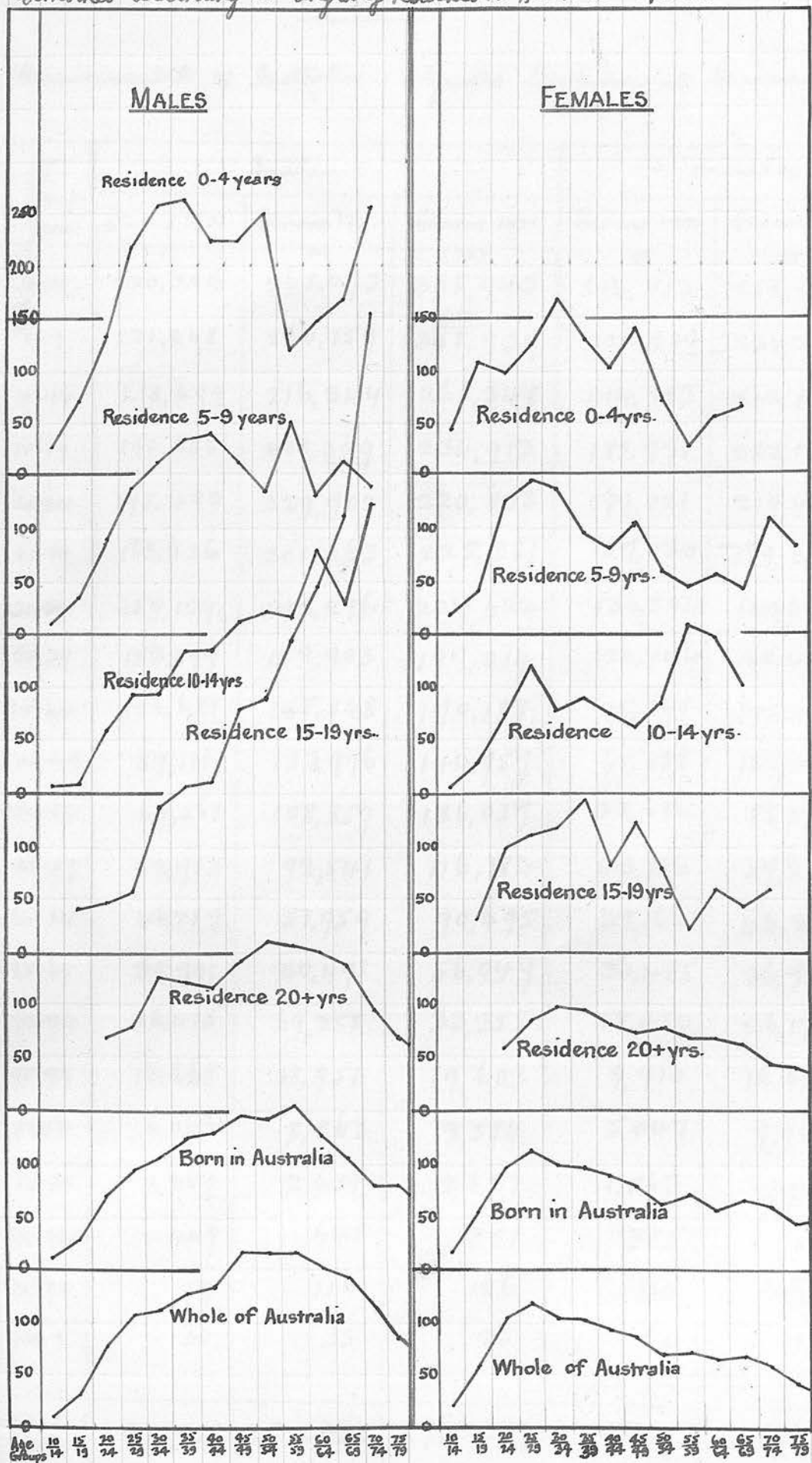
Central Death Rates from All Forms of Tuberculosis combined according to length of Residence in Australia 1911-22-Females

Age Group	Death Rates per 100,000									
	Commonwealth of Australia 1908-22					Length of Residence in Australia.				
	Aggregate Rates	"Young Adult" Rates	"Middle Age" Rates	"Old Age" Rates	Born in Australia	Born outside Australia, but resident in Australia -				
						20+ yrs	15-19 yrs	10-14 yrs	5-9 yrs	0-4 yrs
Years	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0-4					32	-	-	-	-	62
5-9					10	-	-	-	15	29
10-14	15	8	7	0	14	-	-	5	16	44
15-19	58	43	15	0	53	-	31	30	41	106
20-24	102	80	22	0	98	57	99	73	123	99
25-29	117	87	30	0	112	85	110	117	142	125
30-34	102	63	39	0	99	98	115	82	137	164
35-39	101	49	52	0	98	94	145	88	97	131
40-44	92	30	61	1	90	80	85	77	85	101
45-49	87	19	64	4	80	73	126	63	102	142
50-54	67	12	46	11	63	77	80	86	59	71
55-59	69	10	31	28	72	65	19	157	47	24
60-64	64	7	14	43	55	65	57	148	57	53
65-69	68	5	11	52	65	61	42	101	45	62
70-74	57	4	8	45	60	44	58	-	107	-
75-79	46	3	7	36	48	38	-	117	85	-
80+	30	2	5	23	57	23	-	-	-	-
a					+0.89	+0.59	+0.82	+0.76	+1.02	+1.12
b					+1.07	+1.11	+1.43	+1.01	+1.32	+1.48
c					+1.02	+0.86	+0.37	+1.60	+0.96	+0.08

# GRAPH 8

24

curves of central Death Rates from All Forms of Tuberculosis  
combined according to length of residence in Australia 1911-22





# APPENDIX B

## TABLE I

Commonwealth of Australia - Adjusted Population at censuses 1901, 1911 and 1921

Age Group Years	Males			Females		
	census 1901	census 1911	census 1921	census 1901	census 1911	census 1921
	(1)	(2)	(3)	(4)	(5)	(6)
0-4	220,204	268,073	305,945	214,913	258,850	295,044
5-9	231,368	230,159	301,939	226,020	224,206	294,498
10-14	218,699	216,344	268,348	214,983	212,870	261,331
15-19	190,656	228,329	234,913	188,771	223,138	229,293
20-24	175,490	229,702	220,803	177,021	219,495	233,285
25-29	163,326	201,263	225,381	157,030	189,669	236,889
30-34	157,129	172,276	227,622	136,394	160,878	221,326
35-39	152,877	152,903	197,014	120,744	140,467	189,800
40-44	126,681	145,848	170,188	95,391	125,462	161,118
45-49	89,111	133,976	144,757	65,888	109,242	135,577
50-54	67,563	108,859	136,027	52,686	85,336	119,807
55-59	52,913	72,541	116,184	43,136	57,290	99,416
60-64	46,257	51,759	90,495	37,166	44,262	78,593
65-69	38,701	40,491	56,049	30,485	36,700	48,859
70-74	26,015	29,255	33,355	18,450	26,176	31,811
75-79	12,668	18,951	19,603	9,710	16,609	20,409
80-84	6,063	8,863	9,584	5,047	7,740	10,359
85-89	1,669	2,651	3,631	1,563	2,720	4,216
90-94	409	641	881	385	704	1,062
95-99	99	116	126	70	127	160
100+	30	35	25	20	29	11
Total - All Ages	1,977,928	2,313,035	2,762,870	1,795,873	2,141,970	2,672,864

TABLE 2

Commonwealth of Australia - Distribution of "Unspecified" among Age Groups in Census 1921

Age Group - years	Males						Females					
	Population at census 1911	Population at census 1921	Population at census 1911 as adjusted by Statistician	Distribution of Unspecified		Adjusted Population at census 1921	Population at census 1911	Population at census 1921	Population at census 1911 as adjusted by Statistician	Distribution of Unspecified		Adjusted Population at census 1921
				Census 1911 by Statistician	Census 1921 by Statistician					Census 1911 by Statistician	Census 1921 by Statistician	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
0-4	267,411	305,522	268,073	662	423	305,945	258,222	294,684	258,850	628	360	295,044
5-9	229,586	301,573	230,159	573	366	301,939	223,660	294,185	224,206	546	313	294,498
10-14	215,804	268,003	216,344	540	345	268,348	212,357	261,037	212,870	513	294	261,331
15-19	226,831	233,956	228,329	1498	957	234,913	221,705	228,472	223,138	1,433	821	229,293
20-24	228,179	219,830	229,702	1,523	973	220,803	218,091	232,481	219,495	1,404	804	233,285
25-29	199,922	224,525	201,263	1,341	856	225,381	188,454	236,193	189,669	1,215	696	236,889
30-34	171,119	226,883	172,276	1,157	739	227,622	159,841	220,732	160,878	1,037	594	221,326
35-39	151,872	196,356	152,903	1,031	658	197,014	139,560	189,281	140,467	907	519	189,800
40-44	144,867	169,562	145,848	981	626	170,188	124,651	160,627	125,462	811	464	161,118
45-49	133,079	144,184	133,976	897	573	144,757	108,537	135,173	109,242	705	404	135,577
50-54	108,132	135,563	108,859	727	464	136,027	84,787	119,493	85,336	549	314	119,807
55-59	72,058	115,876	72,541	483	308	116,184	56,923	99,206	57,290	367	210	99,416
60-64	51,416	90,276	51,759	343	219	90,495	43,974	78,428	44,262	288	165	78,593
65-69	40,227	55,880	40,491	264	169	56,049	36,464	48,724	36,700	236	135	48,859
70-74	29,063	33,232	29,255	192	123	33,355	26,007	31,714	26,176	169	97	31,811
75-79	18,831	19,526	18,951	120	77	19,603	16,501	20,347	16,609	108	62	20,409
80-84	8,808	9,549	8,863	55	35	9,584	7,689	10,330	7,740	51	29	10,359
85-89	2,638	3,623	2,651	13	8	3,631	2,706	4,208	2,720	14	8	4,216
90-94	640	880	641	1	1	881	702	1,061	704	2	1	1,062
95-99	116	126	116	-	-	126	127	160	127	-	-	160
100+	35	25	35	-	-	25	29	11	29	-	-	11
Unspecified	12,401	7,920	-	-	-	-	10,983	6,290	-	-	-	-
Total - All Ages	2,313,035	2,762,870	2,313,035	12,401	7,920	2,762,870	2,141,970	2,672,864	2,141,970	10,983	6,290	2,672,864

TABLE 3

Commonwealth of Australia - calculation of Mean Population 1908-22 & 1911-22 - Males

Age Group - Years	1908-22											
	Population at Census 1901	Population at Census 1911	Population at Census 1921	Population at Census 1901 per 106	Population at Census 1911 per 106	Population at Census 1921 per 106	(5)-(4)	(6)-(5)	(7) X 0.725	(8) X 1.125	Population at 30.6.08 per 106	Population at 30.6.22 per 106
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
0-4	220,204	268,073	305,945	111,331	115,896	110,733	+4,565	-5,163	+3,310	-5,809	114,641	110,087
5-9	231,368	230,159	301,939	116,975	99,505	109,284	-17,470	+9,779	-12,666	+11,007	104,309	110,507
10-14	218,699	216,344	268,348	110,570	93,533	97,127	-17,037	+3,594	-12,352	+4,043	98,218	97,576
15-19	190,656	228,329	234,913	96,392	98,714	85,025	+2,222	-13,689	+1,684	-15,400	98,076	83,314
20-24	175,490	229,702	220,803	88,724	99,308	79,918	+10,584	-19,390	+7,673	-21,814	96,397	77,494
25-29	163,326	201,263	225,381	82,574	87,013	81,575	+4,439	-5,438	+3,218	-6,118	85,792	80,895
30-34	157,129	172,276	227,622	79,441	74,480	82,386	-4,961	+7,906	-3,597	+8,894	75,844	83,374
35-39	152,877	152,903	197,014	77,291	66,105	71,308	-11,186	+5,203	-8,110	+5,854	69,181	71,959
40-44	126,681	145,848	170,188	64,047	63,055	61,598	-992	-1,457	-719	-1,639	63,328	61,416
45-49	89,111	133,976	144,757	45,053	57,922	52,394	+12,869	-5,528	+9,330	-6,219	54,383	51,703
50-54	67,563	108,859	136,027	34,158	47,063	49,234	+12,905	+2,171	+9,356	+2,442	43,514	49,505
55-59	52,913	72,541	116,184	26,752	31,362	42,052	+4,610	+10,690	+3,342	+12,026	30,094	43,388
60-64	46,257	51,759	90,495	23,387	22,377	32,754	-1,010	+10,377	-732	+11,674	22,655	34,051
65-69	38,701	40,491	56,049	19,566	17,506	20,287	-2,060	+2,781	-1,493	+3,129	18,073	20,635
70-74	26,015	29,255	33,355	13,153	12,648	12,073	-505	-575	-366	-647	12,787	12,001
75-79	12,668	18,951	19,603	6,405	8,193	7,095	+1,788	-1,098	+1,296	-1,235	7,701	6,958
80-84	6,063	8,863	9,584	3,065	3,832	3,469	+767	-363	+556	-408	3,621	3,424
85-89	1,669	2,651	3,631	844	1,146	1,314	+302	+168	+219	+189	1,063	1,335
90-94	409	641	881	207	277	319	+70	+42	+51	+47	258	324
95-99	99	116	126	50	50	46	-	-4	-	-4	50	46
100+	30	35	25	15	15	9	-	-6	-	-7	15	8
Total - All Ages	1,977,928	2,313,035	2,762,810	1,000,000	1,000,000	1,000,000	+55,221	+52,711	+40,035	+59,300	1,000,000	1,000,000
							-55,221	-52,711	-40,035	-59,300		



TABLE 3A

Commonwealth of Australia - calculation of Mean Population 1908-22 & 1911-22 - Males - (Continued)

Age Group - years	1908-22		1911-22							Age Group - years	log (2)	log (8)	(2)-(19)	Antilog (21) = Ratio of Mean Population 1911-22 to Census Pop 1911
	$\frac{(12)+(6)}{2}$ = Mean Pop <sup>1</sup> 1908-22 per 10 <sup>6</sup> (13)	Mean Population 1908-22 (14)	(8) ÷ 40 (15)	$\frac{(5)+(5)}{2}$ = Population at 30-6-11 per 10 <sup>6</sup> (16)	$\frac{(12)+(16)}{2}$ = Mean Pop <sup>1</sup> during 1911-22 per 10 <sup>6</sup> (17)	Mean Population 1911-22 (18)								
0-4	112,364	281,793	-129	115,767	112,927	289,758								
5-9	107,408	269,365	+245	99,750	105,128	269,745								
10-14	97,897	245,512	+90	93,623	95,600	245,299	Under 15	5.8540485	5.9056891	.0516406	1.12627			
15-19	90,695	227,451	-342	98,372	90,843	233,093	15-19	5.3585611	5.3675292	.0089681	1.02086			
20-24	86,945	218,046	-485	98,823	88,158	226,204	20-24	5.3611648	5.3544994	-.0066654	0.98477			
25-29	83,344	209,015	-136	86,877	83,886	215,242	25-29	5.3037640	5.3329277	.0291637	1.06946			
30-34	79,609	199,648	+198	74,678	79,026	202,772	30-34	5.2362248	5.3070077	.0707829	1.17702			
35-39	70,570	176,980	+130	66,235	69,097	177,295	35-39	5.1844160	5.2486969	.0642809	1.15953			
40-44	62,372	156,420	-37	63,018	62,217	159,642	40-44	5.1639005	5.2031468	.0392463	1.09458			
45-49	53,043	133,025	-138	57,784	54,744	140,467	45-49	5.1270272	5.1475742	.0205470	1.04845			
50-54	46,509	116,638	+54	47,117	48,311	123,961	50-54	5.0368644	5.0932837	.0564193	1.13873			
55-59	36,741	92,141	+267	31,629	37,508	96,241	55-59	4.8605835	4.9833616	.1227781	1.32672			
60-64	28,353	71,105	+259	22,636	28,344	72,728	60-64	4.7139859	4.8616988	.1477129	1.40512			
65-69	19,354	48,537	+70	17,576	19,105	49,021	65-69	4.6073585	4.6903842	.0830262	1.21067			
70-74	12,394	31,082	-14	12,634	12,318	31,607	70-74	4.4662001	4.4997779	.0335778	1.08038			
75-79	7,330	18,383	-28	8,165	7,561	19,401	75-79	4.2776321	4.2878169	.0101848	1.02373			
80-84	3,522	8,833	-9	3,823	3,624	9,299	80+	4.0901169	4.1274935	.0373766	1.08987			
85-89	1,199	3,007	+4	1,150	1,242	3,187		-	-	-	-			
90-94	291	730	+1	278	301	772		-	-	-	-			
95-99	48	120	-	50	48	123		-	-	-	-			
100+	12	30	-	15	12	31		-	-	-	-			
Total All Ages	1,000,000	2,507,861	+1,318 -1,318	1,000,000	1,000,000	2,565,888								



TABLE 4

Commonwealth of Australia - calculation of mean Population 1908-22 - Females

Age Group Years	Population at census 1901	Population at census 1911	Population at census 1921	Population at census 1901 per 10 <sup>6</sup>	Population at census 1911 per 10 <sup>6</sup>	Population at census 1921 per 10 <sup>6</sup>
	(1)	(2)	(3)	(4)	(5)	(6)
0-4	214,913	258,850	295,044	119,670	120,847	110,385
5-9	226,020	224,206	294,498	125,855	104,673	110,181
10-14	214,983	212,870	261,331	119,710	99,380	97,772
15-19	188,771	223,138	229,293	105,114	104,174	85,785
20-24	177,021	219,495	233,285	98,571	102,473	87,279
25-29	157,030	189,669	236,889	87,439	88,549	88,627
30-34	136,394	160,878	221,326	75,949	75,107	82,805
35-39	120,744	140,467	189,800	67,234	65,578	71,010
40-44	95,391	125,462	161,118	53,117	58,573	60,279
45-49	65,888	109,242	135,577	36,689	51,001	50,724
50-54	52,686	85,336	119,807	29,337	39,840	44,823
55-59	43,136	57,290	99,416	24,020	26,746	37,195
60-64	37,166	44,262	78,593	20,695	20,664	29,404
65-69	30,485	36,700	48,859	16,975	17,134	18,280
70-74	18,450	26,176	31,811	10,274	12,221	11,901
75-79	9,710	16,609	20,409	5,407	7,754	7,636
80-84	5,047	7,740	10,359	2,810	3,614	3,876
85-89	1,563	2,720	4,216	870	1,270	1,577
90-94	385	704	1,062	214	329	397
95-99	70	127	160	39	59	60
100+	20	29	11	11	14	4
Total - All Ages	1,795,873	2,141,970	2,672,864	1,000,000	1,000,000	1,000,000

TABLE 4A

Commonwealth of Australia - Calculation of Mean Population 1908-22 - Females (Continued)

Age Group Years	(5)-(4)	(6)-(5)	(7) x 0.725	(8) x 1.125	Population at 30.6.08 per 106	Population at 30.6.22 per 106	$\frac{[(11)+(12)] \div 2}{\text{per 106}}$ = Mean Population 1908-22	Mean Population 1908-22
	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
0-4	+1,177	-10,462	+ 853	-11,770	120,523	109,077	114,800	272,842
5-9	-21,182	+5,508	-15,357	+6,197	110,498	110,870	110,684	263,059
10-14	-20,330	-1,608	-14,739	-1,809	104,971	97,571	101,271	240,688
15-19	- 940	-18,389	- 682	-20,688	104,432	83,486	93,959	223,310
20-24	+3,902	-15,194	+2,829	-17,093	101,400	85,380	93,390	221,957
25-29	+1,110	+ 78	+ 805	+ 88	88,244	88,637	88,441	210,195
30-34	- 842	+7,698	- 610	+8,660	75,339	83,767	79,553	189,071
35-39	-1,656	+5,432	-1,201	+6,111	66,033	71,689	68,861	163,660
40-44	+5,456	+1,706	+3,956	+1,919	57,073	60,492	58,782	139,705
45-49	+14,312	- 277	+10,376	- 311	47,065	50,690	48,878	116,167
50-54	+10,503	+4,983	+7,615	+5,606	36,952	45,446	41,199	97,917
55-59	+2,726	+10,449	+1,976	+11,755	25,996	38,501	32,248	76,643
60-64	- 31	+8,740	- 22	+9,833	20,673	30,497	25,585	60,807
65-69	+ 159	+1,146	+ 115	+1,289	17,090	18,423	17,757	42,203
70-74	+1,947	- 320	+1,412	- 360	11,686	11,861	11,773	27,981
75-79	+2,347	- 118	+1,701	- 133	7,108	7,621	7,365	17,504
80-84	+ 804	+262	+ 583	+295	3,393	3,909	3,651	8,677
85-89	+ 400	+ 307	+ 290	+345	1,160	1,615	1,387	3,297
90-94	+ 115	+ 68	+ 83	+ 76	297	405	351	834
95-99	+ 20	+ 1	+ 15	+ 1	54	60	57	135
100+	+ 3	- 10	+ 2	- 11	13	3	8	19
Total- All Ages	+44,981 -44,981	+46,378 -46,378	+32,611 -32,611	+52,175 -52,175	1,000,000	1,000,000	1,000,000	2,376,671

TABLE 5

Communicable diseases of Australia - Number of Deaths from Tuberculosis of Respiratory System 1908-22 - Males

Year	Age - years															Total												
	0	1	2	3	4	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49		50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-99	100+	Unspec-ified
1908	9	8	4	1	1	23	9	11	78	169	194	197	223	191	171	122	90	83	41	23	5	5	-	-	-	-	3	1,867
1909	13	5	2	1	1	22	7	16	76	140	199	169	211	210	154	124	100	68	42	16	2	1	-	-	-	-	4	1,777
1910	5	10	2	4	-	21	4	10	78	146	191	190	193	181	224	181	83	50	35	14	3	2	-	-	-	-	2	1,711
1911	5	9	4	1	-	19	5	15	59	150	199	208	197	232	211	153	84	62	39	14	5	1	1	-	-	-	3	1,767
1912	9	9	3	2	2	26	5	8	68	155	223	206	200	190	222	183	83	49	36	12	3	1	-	-	-	-	-	1,794
1913	8	7	4	4	1	24	10	13	59	162	199	230	208	210	187	216	82	72	32	9	2	1	-	-	-	-	3	1,861
1914	9	9	2	-	-	20	6	13	59	159	211	217	223	185	199	135	98	67	29	17	4	2	2	1	-	-	5	1,853
1915	11	5	1	1	1	19	5	4	65	163	195	194	221	181	193	176	86	66	29	12	4	2	-	-	-	-	4	1,760
1916	10	4	7	1	3	25	1	11	58	163	209	187	230	199	201	161	103	73	33	14	4	1	-	1	-	-	3	1,869
1917	7	4	3	1	4	19	5	9	56	139	161	215	207	191	191	136	105	65	35	6	5	2	-	-	-	-	-	1,707
1918	2	5	4	-	3	14	2	4	47	136	180	214	238	187	206	174	106	61	23	16	4	1	-	-	-	-	1	1,754
1919	4	4	3	-	2	13	3	7	73	160	227	258	266	229	231	175	126	65	31	19	5	2	-	-	-	-	3	2,090
1920	11	8	3	5	1	28	14	12	55	130	209	225	215	209	217	164	124	47	18	15	7	1	1	-	-	-	3	1,873
1921	5	2	1	3	2	13	9	4	58	148	210	219	231	226	214	160	111	74	31	16	4	2	-	-	-	-	3	1,903
1922	1	6	3	1	1	12	2	9	61	136	203	194	185	184	203	179	132	72	30	12	4	1	-	-	-	-	1	1,775
Total 1908-22	109	95	46	26	22	298	87	143	956	2756	3008	3123	3228	3037	2694	2117	1513	974	484	215	61	25	3	1	-	38	27,361	



TABLE 6

Commonwealth of Australia - Number of Deaths from Tuberculosis of Respiratory System 1908-22 - Females.

32

Year	Ages - years																Unreported	Total										
	0	1	2	3	4	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54			55-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-99	100+
1908	9	8	2	1	1	21	10	34	155	247	256	195	150	141	127	63	47	34	34	20	12	-	1	-	-	-	-	1,542
1909	7	4	3	1	1	16	7	24	132	231	238	187	163	112	97	56	33	47	35	17	8	3	-	-	-	-	1	1,392
1910	7	5	1	1	2	16	9	23	125	198	248	176	156	120	93	51	53	31	26	13	7	1	-	-	-	-	2	1,348
1911	6	8	2	3	2	21	6	22	125	223	236	190	159	128	93	47	47	42	34	17	6	5	-	1	-	-	-	1,397
1912	4	6	5	3	1	19	10	34	120	250	217	161	144	103	99	65	39	33	31	22	5	5	-	-	-	-	-	1,352
1913	8	3	4	2	-	17	8	19	134	211	248	187	141	127	93	67	47	35	29	21	4	2	1	-	-	-	-	1,391
1914	10	3	-	1	2	16	10	16	95	191	223	165	155	116	84	57	50	30	28	11	9	1	-	-	-	-	1	1,258
1915	4	7	4	4	2	21	8	22	98	200	237	190	129	115	94	68	45	25	23	17	8	3	1	-	-	-	-	1,304
1916	7	4	6	1	-	18	4	25	105	206	235	166	145	114	106	60	63	30	27	10	10	5	-	-	-	-	-	1,329
1917	5	4	2	-	4	15	4	15	86	172	204	191	147	93	87	52	50	32	16	6	5	3	2	-	-	-	1	1,176
1918	5	7	3	2	3	20	4	20	100	198	204	164	145	138	83	78	51	38	15	14	7	-	1	-	1	-	-	1,281
1919	8	4	4	2	-	18	8	15	103	212	244	187	185	123	100	60	48	35	24	18	7	1	1	-	-	-	-	1,389
1920	6	-	2	1	1	10	12	18	89	176	199	168	144	116	80	70	59	42	22	14	4	1	-	-	-	-	1	1,225
1921	4	5	4	1	1	15	4	13	81	180	230	178	168	136	93	67	56	41	27	10	4	2	2	-	-	-	-	1,302
1922	2	2	2	2	1	9	3	15	88	187	195	182	138	104	71	59	54	27	26	9	10	1	1	-	-	-	-	1,179
Total 1908-22	92	70	44	25	21	252	107	315	1,636	3,087	3,409	2,682	2,269	1,786	1,390	915	732	517	397	219	106	33	10	1	1	-	6	19,865

45



TABLE 7

Commonwealth of Australia - Number of Deaths from All Forms of Tuberculosis Combined 1908-22 - Males

Year	Age - Group - Years																		Total
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+	Unspec-ified	
1908	145	31	35	98	195	211	206	233	239	204	186	137	95	88	42	24	10	3	2,177
1909	131	34	34	94	155	218	185	223	222	225	159	135	108	71	46	18	3	4	2,065
1910	137	33	32	93	159	210	205	205	197	242	190	110	85	51	37	17	6	3	2,012
1911	124	30	44	70	168	219	220	187	246	223	164	140	89	64	42	15	7	3	2,055
1912	122	30	18	85	174	244	223	229	196	235	191	131	90	55	42	13	6	-	2,084
1913	137	25	25	74	179	216	246	222	218	196	225	152	88	75	35	11	3	4	2,131
1914	120	29	32	79	173	230	225	236	198	205	215	144	104	71	31	18	7	5	2,122
1915	89	36	14	79	176	217	204	235	196	207	191	156	91	71	32	13	6	4	2,017
1916	109	21	29	73	181	232	207	242	217	214	202	171	107	78	34	14	6	3	2,140
1917	104	27	23	73	159	180	230	230	201	211	174	146	108	65	37	7	8	-	1,983
1918	99	28	18	57	155	205	225	258	200	222	185	147	112	67	24	18	6	1	2,027
1919	87	19	17	83	179	250	288	289	242	236	211	182	132	72	35	19	7	3	2,351
1920	110	46	32	68	148	228	242	234	221	224	196	173	133	53	21	16	10	4	2,159
1921	90	30	23	72	173	232	237	247	234	223	179	172	118	79	35	18	6	3	2,171
1922	62	27	24	71	152	223	213	203	198	215	190	165	142	75	33	13	5	2	2,013
Total 1908-22	1,666	446	400	1,169	2,526	3,315	3,356	3,473	3,225	3,282	2,858	2,256	1,602	1,035	526	234	96	42	31,507

**TABLE 8**

*Commonwealth of Australia - Number of Deaths from All Forms of Tuberculosis combined 1908-22 - Females*

	Age-Group Years																		Unspec- ified	Total
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+			
1908	105	34	49	180	272	271	208	165	147	136	70	43	39	35	21	12	2	-	1,789	
1909	108	31	40	156	246	253	196	188	122	103	59	37	49	36	19	8	4	1	1,656	
1910	104	22	40	157	221	272	185	169	132	99	63	56	36	27	15	8	3	2	1,605	
1911	114	31	47	148	260	255	206	176	140	100	49	49	43	37	19	6	6	-	1,681	
1912	111	36	48	141	271	227	178	156	116	108	68	42	35	33	23	6	5	-	1,604	
1913	123	26	41	158	237	270	201	153	132	101	73	51	38	33	22	6	4	-	1,669	
1914	75	29	22	111	214	240	176	162	123	89	66	53	37	32	11	10	1	1	1,452	
1915	103	24	33	114	218	253	217	142	122	104	73	46	28	26	21	8	6	-	1,538	
1916	98	21	41	134	232	264	182	159	122	115	64	63	34	27	10	11	6	-	1,583	
1917	75	29	30	97	189	224	203	158	104	86	58	53	36	17	7	7	7	1	1,381	
1918	87	29	29	114	220	222	178	163	146	91	85	56	46	15	16	9	2	-	1,508	
1919	72	28	31	121	225	260	201	194	132	108	70	58	40	28	19	7	3	-	1,597	
1920	70	32	35	102	197	220	180	160	128	92	76	62	49	24	15	4	1	1	1,448	
1921	76	28	24	100	194	246	195	178	141	102	69	65	42	32	10	7	7	-	1,516	
1922	70	22	23	102	205	211	199	148	113	80	65	64	28	29	12	11	2	-	1,384	
	1,391	422	528	1,929	3,401	3,688	2,905	2,471	1,920	1,514	1,008	798	580	431	240	120	59	6	23,411	

TABLE 9

Commonwealth of Australia - Number of Deaths from All Causes Combined 1908-22 - Males

Year	Ages - years																									Total - All Ages																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-99	100+		Unspecified																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
1908	8061	961	106	193	202	431	482	599	608	728	808	878	906	906	1081	1281	1441	1641	1861	2061	2261	2461	2661	2861	3061	3261	3461	3661	3861	4061	4261	4461	4661	4861	5061	5261	5461	5661	5861	6061	6261	6461	6661	6861	7061	7261	7461	7661	7861	8061	8261	8461	8661	8861	9061	9261	9461	9661	9861	10061	10261	10461	10661	10861	11061	11261	11461	11661	11861	12061	12261	12461	12661	12861	13061	13261	13461	13661	13861	14061	14261	14461	14661	14861	15061	15261	15461	15661	15861	16061	16261	16461	16661	16861	17061	17261	17461	17661	17861	18061	18261	18461	18661	18861	19061	19261	19461	19661	19861	20061	20261	20461	20661	20861	21061	21261	21461	21661	21861	22061	22261	22461	22661	22861	23061	23261	23461	23661	23861	24061	24261	24461	24661	24861	25061	25261	25461	25661	25861	26061	26261	26461	26661	26861	27061	27261	27461	27661	27861	28061	28261	28461	28661	28861	29061	29261	29461	29661	29861	30061	30261	30461	30661	30861	31061	31261	31461	31661	31861	32061	32261	32461	32661	32861	33061	33261	33461	33661	33861	34061	34261	34461	34661	34861	35061	35261	35461	35661	35861	36061	36261	36461	36661	36861	37061	37261	37461	37661	37861	38061	38261	38461	38661	38861	39061	39261	39461	39661	39861	40061	40261	40461	40661	40861	41061	41261	41461	41661	41861	42061	42261	42461	42661	42861	43061	43261	43461	43661	43861	44061	44261	44461	44661	44861	45061	45261	45461	45661	45861	46061	46261	46461	46661	46861	47061	47261	47461	47661	47861	48061	48261	48461	48661	48861	49061	49261	49461	49661	49861	50061	50261	50461	50661	50861	51061	51261	51461	51661	51861	52061	52261	52461	52661	52861	53061	53261	53461	53661	53861	54061	54261	54461	54661	54861	55061	55261	55461	55661	55861	56061	56261	56461	56661	56861	57061	57261	57461	57661	57861	58061	58261	58461	58661	58861	59061	59261	59461	59661	59861	60061	60261	60461	60661	60861	61061	61261	61461	61661	61861	62061	62261	62461	62661	62861	63061	63261	63461	63661	63861	64061	64261	64461	64661	64861	65061	65261	65461	65661	65861	66061	66261	66461	66661	66861	67061	67261	67461	67661	67861	68061	68261	68461	68661	68861	69061	69261	69461	69661	69861	70061	70261	70461	70661	70861	71061	71261	71461	71661	71861	72061	72261	72461	72661	72861	73061	73261	73461	73661	73861	74061	74261	74461	74661	74861	75061	75261	75461	75661	75861	76061	76261	76461	76661	76861	77061	77261	77461	77661	77861	78061	78261	78461	78661	78861	79061	79261	79461	79661	79861	80061	80261	80461	80661	80861	81061	81261	81461	81661	81861	82061	82261	82461	82661	82861	83061	83261	83461	83661	83861	84061	84261	84461	84661	84861	85061	85261	85461	85661	85861	86061	86261	86461	86661	86861	87061	87261	87461	87661	87861	88061	88261	88461	88661	88861	89061	89261	89461	89661	89861	90061	90261	90461	90661	90861	91061	91261	91461	91661	91861	92061	92261	92461	92661	92861	93061	93261	93461	93661	93861	94061	94261	94461	94661	94861	95061	95261	95461	95661	95861	96061	96261	96461	96661	96861	97061	97261	97461	97661	97861	98061	98261	98461	98661	98861	99061	99261	99461	99661	99861	100061	100261	100461	100661	100861	101061	101261	101461	101661	101861	102061	102261	102461	102661	102861	103061	103261	103461	103661	103861	104061	104261	104461	104661	104861	105061	105261	105461	105661	105861	106061	106261	106461	106661	106861	107061	107261	107461	107661	107861	108061	108261	108461	108661	108861	109061	109261	109461	109661	109861	110061	110261	110461	110661	110861	111061	111261	111461	111661	111861	112061	112261	112461	112661	112861	113061	113261	113461	113661	113861	114061	114261	114461	114661	114861	115061	115261	115461	115661	115861	116061	116261	116461	116661	116861	117061	117261	117461	117661	117861	118061	118261	118461	118661	118861	119061	119261	119461	119661	119861	120061	120261	120461	120661	120861	121061	121261	121461	121661	121861	122061	122261	122461	122661	122861	123061	123261	123461	123661	123861	124061	124261	124461	124661	124861	125061	125261	125461	125661	125861	126061	126261	126461	126661	126861	127061	127261	127461	127661	127861	128061	128261	128461	128661	128861	129061	129261	129461	129661	129861	130061	130261	130461	130661	130861	131061	131261	131461	131661	131861	132061	132261	132461	132661	132861	133061	133261	133461	133661	133861	134061	134261	134461	134661	134861	135061	135261	135461	135661	135861	136061	136261	136461	136661	136861	137061	137261	137461	137661	137861	138061	138261	138461	138661	138861	139061	139261	139461	139661	139861	140061	140261	140461	140661	140861	141061	141261	141461	141661	141861	142061	142261	142461	142661	142861	143061	143261	143461	143661	143861	144061	144261	144461	144661	144861	145061	145261	145461	145661	145861	146061	146261	146461	146661	146861	147061	147261	147461	147661	147861	148061	148261	148461	148661	148861	149061	149261	149461	149661	149861	150061	150261	150461	150661	150861	151061	151261	151461	151661	151861	152061	152261	152461	152661	152861	153061	153261	153461	153661	153861	154061	154261	154461	154661	154861	155061	155261	155461	155661	155861	156061	156261	156461	156661	156861	157061	157261	157461	157661	157861	158061	158261	158461	158661	158861	159061	159261	159461	159661	159861	160061	160261	160461	160661	160861	161061	161261	161461	161661	161861	162061	162261	162461	162661	162861	163061	163261	163461	163661	163861	164061	164261	164461	164661	164861	165061	165261	165461	165661	165861	166061	166261	166461	166661	166861	167061	167261	167461	167661	167861	168061	168261	168461	168661	168861	169061	169261	169461	169661	169861	170061	170261	170461	170661	170861	171061	171261	171461	171661	171861	172061	172261	172461	172661	172861	173061	173261	173461	173661	173861	174061	174261	174461	174661	174861	175061	175261	175461	175661	175861	176061	176261	176461	176661	176861	177061	177261	177461	177661	177861	178061	178261	178461	178661	178861	179061	179261	179461	179661	179861	180061	180261	180461	180661	180861	181061	181261	181461	181661	181861	182061	182261	182461	182661	182861	183061	183261	183461	183661	183861	184061	184261	184461	184661	184861	185061	185261	185461	185661	185861	186061	186261	186461	186661	186861	187061	187261	187461	187661	187861	188061	188261	188461	188661	188861	189061	189261	189461	189661	189861	190061	190261	190461	190661	190861	191061	191261	191461	191661	191861	192061	192261	192461	192661	192861	193061	193261	193461	193661	193861	194061	194261	194461	194661	194861	195061	195261	195461	195661	195861	196061	196261	196461	196661	196861	197061	197261	197461	197661	197861	198061	198261	198461	198661	198861	199061	199261	199461	199661	199861	200061	200261	200461	200661	200861	201061	201261	201461	201661	201861	202061	202261	202461	202661	202861	203061	203261	203461	203661	203861	204061	204261	204461	204661	204861	205061	205261	205461	205661	205861	206061	206261	206461	206661	206861	207061	207261	207461	207661	207861	208061	208261	208461	208661	208861	209061	209261	209461	209661	209861	210061	210261	210461	210661	210861	211061	211261	211461	211661	211861	212061	212261	212461	212661	212861	213061	213261	213461	213661	213861	214061	214261	214461	214661	214861	215061	215261	215461	215661	215861	216061	216261	216461	216661	216861	217061	217261	217461	217661	217861	218061	218261	218461	218661	218861	219061	219261	219461	219661	219861	220061	220261	220461	220661	220861	221061	221261	221461	221661	221861	222061	222261	222461	222661	222861	223061	223261	223461	223661	223861	224061	224261	224461	224661	224861	225061	225261	225461	225661	225861	226061	226261	226461	226661	226861	227061	227261	227461	227661	227861	228061	228261	228461	228



TABLE 10

Commonwealth of Australia - Number of Deaths from All Causes combined 1908-22 - Females.

Year	Age - years																	100+	Unspec. 1924	Total - All Ages.								
	0	1	2	3	4	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59				60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-99
1908	3415	669	252	157	127	5025	4449	3357	620	1877	819	956	818	858	926	822	914	991	1287	1447	1597	928	570	170	51	5	10	19794
1909	3553	626	243	140	138	4814	3917	2867	510	1721	781	928	858	1887	827	721	911	890	1237	1349	1463	863	501	196	30	12	11	18651
1910	3822	714	277	183	173	5119	4401	3097	644	2016	808	926	807	1647	817	858	949	858	1265	1406	1587	1032	525	210	49	14	14	19436
1911	3604	634	289	172	152	4871	4528	3227	441	1967	807	942	857	1447	866	919	871	962	1320	1574	1680	1127	600	233	47	13	10	20228
1912	4102	869	330	217	181	5695	5055	3578	505	2423	825	944	875	852	911	1007	914	1030	1347	1520	1662	1227	621	223	52	8	8	21892
1913	5385	2188	262	212	183	5746	5028	3627	422	2416	882	819	822	817	928	1001	925	999	1292	1465	1612	1273	617	227	69	9	13	21885
1914	2812	810	334	232	167	5523	5149	3377	472	2416	888	818	848	818	926	1007	1081	1067	1237	1357	1665	1335	616	222	65	10	7	22128
1915	6112	951	394	246	194	5828	5647	3557	652	2428	946	848	828	830	933	1123	1163	1182	1324	1619	1651	1320	810	271	66	14	4	23172
1916	3042	583	292	209	152	4224	4356	3007	392	1817	836	850	834	768	859	984	1110	1254	1252	1618	1285	1285	644	262	62	6	11	20420
1917	3186	673	311	221	184	4515	4157	2847	405	1652	814	827	911	837	893	1040	1241	1293	1366	1645	1457	1228	828	272	82	14	3	21664
1918	3662	753	366	220	205	5206	5479	3897	623	1923	1171	1651	1230	1227	1345	1476	1604	1712	1666	1697	1827	1502	931	312	96	12	13	28298
1919	4045	969	396	267	207	5879	6047	3317	445	2024	900	893	934	903	923	1080	1282	1465	1552	1637	1916	1501	966	325	84	14	16	24236
1920	2841	719	330	166	190	5246	5677	3357	478	1667	894	942	1024	911	947	1133	1229	1502	1552	1613	1911	1252	822	308	69	10	8	23424
1921	2922	553	226	169	130	4050	4444	3205	391	1633	710	836	850	834	768	859	984	1110	1241	1252	1618	1285	1285	644	262	6	15	22066
Total 1908-22	32928	11140	4747	3000	2469	47128	44457	31457	4246	11322	4551	13011	12615	12960	13591	15324	16205	17983	19672	21473	23142	19092	11066	38577	952	162	161	32928



TABLE II

Commonwealth of Australia - Central Death Rates from Pulmonary Tuberculosis,  
from All Forms of Tuberculosis Combined & from All Causes Combined - Males

Age Group Years	1908-22							1909-12			1920-22
	Mean Population 1908-22	Number of Deaths from Pulmonary Tuberculosis 1908-22	Number of Deaths from All Forms of Tuberculosis Combined 1908-22	Number of Deaths from All Causes Combined 1908-22	Central Death Rates from Pulmonary Tuberculosis 1908-22	Central Death Rates from All Forms of Tuberculosis Combined 1908-22	Central Death Rates from All Causes Combined 1908-22	Population at Census 1911	Number of Deaths from Pulmonary Tuberculosis for 3 years with Census 1911 at mid- point - 1909-12	Central Death Rates from Pulmonary Tuberculosis 1909-12 (3 years)	Central Death Rates from Pulmonary Tuberculosis Combined (Communicable Statistics)
	(1)	(2)	(3)	(4)	per 10 <sup>5</sup> (5)	per 10 <sup>5</sup> (6)	per 10 <sup>5</sup> (7)	(8)	(9)	per 10 <sup>5</sup>	per 10 <sup>5</sup>
0-4	281,793	298	1,666	98,456	7	39	2329	268,073	64	8	6
5-9	269,365	87	446	8,422	2	11	208	230,159	15	2	3
10-14	245,512	143	400	6,007	4	11	163	216,344	35	5	3
15-19	227,451	950	1,169	8,827	28	34	259	228,329	207	30	25
20-24	218,046	2,256	2,526	12,107	69	77	370	229,702	447	65	63
25-29	209,015	3,008	3,315	14,092	96	106	449	201,263	607	101	92
30-34	199,648	3,123	3,356	14,898	104	112	497	172,276	595	115	94
35-39	176,980	3,228	3,473	16,844	122	131	634	152,903	573	125	107
40-44	156,420	3,037	3,225	18,705	129	137	797	145,848	609	139	122
45-49	133,025	3,106	3,282	23,308	156	164	1,168	133,976	655	163	147
50-54	116,638	2,694	2,858	26,660	154	163	1,524	108,859	509	156	130
55-59	92,141	2,117	2,256	28,637	153	163	2,072	72,541	357	164	139
60-64	71,105	1,513	1,602	30,444	142	150	2,854	51,759	254	164	135
65-69	48,537	974	1,035	31,321	134	142	4,303	40,491	166	138	115
70-74	31,082	484	526	31,619	104	113	6,782	29,255	112	128	79
75-79	18,383	215	234	31,587	78	85	11,455	18,951	41	72	73
80+	12,720	90	96	40,471	46	50	21,211	12,306	15	41	47
Unspecified	—	38	42	903	—	—	—	—	6	—	—
Total All Ages	2,507,861	27,361	31,507	443,318	—	—	—	2,313,035	5,267	—	—

TABLE 12

Commonwealth of Australia—Central Death Rates from Pulmonary Tuberculosis,  
from All Forms of Tuberculosis Combined & from All Causes Combined—Females

Age Group years	1908-27							1909-17			1920-27
	Mean Population 1908-27	Number of Deaths from Pulmonary Tuberculosis 1908-27	Number of Deaths from All Forms of Tuberculosis Combined 1908-27	Number of Deaths from All Causes Combined 1908-27	Central Death Rates from Pulmonary Tuberculosis 1908-27	Central Death Rates from All Forms of Tuberculosis Combined 1908-27	Central Death Rates from All Causes Combined 1908-27	Population at Census 1911	Number of Deaths from Pulmonary Tuberculosis for 3 years with Census midpoint 1909-17	Central Death Rates from Pulmonary Tuberculosis 1909-17 (3 years)	Central Death Rates from Pulmonary Tuberculosis 1920-27 (Commonwealth Statistician)
	(1)	(2)	(3)	(4)	per 105 (5)	per 105 (6)	per 105 (7)	(8)	(9)	per 105 (10)	per 105 (11)
0-4	272,847	252	1,391	77,638	6	34	1897	258,850	55	7	3
5-9	263,059	107	427	7,445	3	11	189	224,206	24	4	2
10-14	240,688	315	528	4,928	9	15	136	212,870	77	12	6
15-19	223,310	1,636	1,929	7,346	49	58	219	223,138	373	56	38
20-24	221,957	3,087	3,401	11,372	93	102	342	219,495	666	101	78
25-29	210,195	3,409	3,688	13,563	108	117	430	189,669	702	123	88
30-34	189,071	2,682	2,905	13,095	98	102	462	160,878	533	110	80
35-39	163,660	2,269	2,471	13,675	92	101	557	149,467	464	110	79
40-44	139,705	1,786	1,920	12,960	85	92	618	125,462	353	94	74
45-49	116,167	1,390	1,514	13,998	80	87	803	109,242	283	86	60
50-54	97,917	915	1,008	15,344	62	69	1,045	85,336	161	63	53
55-59	76,643	732	798	16,205	64	69	1,410	57,290	132	77	57
60-64	60,807	517	580	17,783	57	64	1,950	44,262	108	81	47
65-69	42,203	397	431	20,645	63	68	3,261	36,700	92	84	51
70-74	27,981	219	240	23,141	52	57	5,514	26,176	51	65	35
75-79	17,504	106	120	24,773	40	46	9,435	16,609	19	38	29
80+	12,962	45	59	35,216	26	30	18,627	11,320	12	35	15
Unspecified	—	6	6	161	—	—	—	—	2	—	—
Total All Ages	2,376,671	19,865	23,411	329,288	—	—	—	2,141,970	4,107	—	—

TABLE 13

State of New South Wales - Number of Deaths from Tuberculosis of the Respiratory System 1906-10

Year	Age - years																									Total - All Ages			
	0	1	2	3	4	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-99		100+	Unre- corded	
	MALES																												
1906	3	-	1	1	1	6	3	3	23	57	58	65	60	83	82	61	38	32	29	10	7	3	-	-	-	-	-	1	621
1907	2	3	-	-	-	5	3	7	11	46	59	72	56	71	60	53	37	31	28	22	2	3	-	-	-	-	-	-	566
1908	4	4	1	1	1	11	2	2	16	45	56	60	67	62	61	55	47	22	12	12	4	1	1	-	-	-	-	1	537
1909	5	5	1	-	-	11	3	2	25	47	75	59	64	76	81	36	40	42	30	9	6	-	-	-	-	-	-	1	607
1910	2	3	-	3	-	8	2	4	23	53	64	59	69	58	68	65	44	30	26	8	6	2	2	-	-	-	-	-	591
Total 1906-10	16	15	3	5	2	41	13	18	98	248	317	315	316	350	352	270	206	157	125	61	25	9	3	-	-	-	-	3	2,922
Year	FEMALES																									Total - All Ages			
	0	1	2	3	4	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-99		100+	Unre- corded	
	FEMALES																												
1906	3	1	-	-	1	5	4	8	40	70	49	51	51	36	31	13	19	13	5	2	2	-	-	-	-	-	-	-	399
1907	3	3	1	1	1	9	2	4	32	67	46	52	46	39	36	19	19	14	15	5	4	1	-	-	-	-	-	-	410
1908	2	2	1	-	-	5	3	7	48	75	79	62	43	51	29	26	16	14	13	10	3	-	-	-	-	-	-	-	484
1909	4	4	1	-	1	10	2	9	32	69	79	63	44	35	35	26	11	19	12	5	3	1	-	-	-	-	-	-	455
1910	2	2	1	-	-	5	3	5	29	69	83	53	62	48	31	22	19	14	13	6	2	-	-	-	-	-	-	2	466
Total 1906-10	14	12	4	1	3	34	14	33	181	350	336	281	246	209	162	106	84	74	58	28	14	2	-	-	-	-	-	2	2,214



TABLE 14

*State of New South Wales - calculation of central death rates  
from Tuberculosis of the respiratory system 1906-10 - males*

Age Group years	Number of Deaths 1906-10 (5 yrs)	Population at census 1901	Population at census 1911	Population at census 1901 per 10 <sup>5</sup>	Population at census 1911 per 10 <sup>5</sup>	(5)-(4)	(6)X.725	(4)+(7)	mean Population 1906-10	central death rates 1906-10 per 10 <sup>5</sup>
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0-4	41	80,318	101,875	11,312	11,878	+566	+410	11,722	95,448	9
5-9	13	84,199	85,325	11,859	9,948	-1,911	-1,386	10,473	85,278	3
10-14	18	81,592	78,850	11,492	9,193	-2,299	-1,667	9,825	80,001	4
15-19	98	70,572	84,850	9,940	9,893	- 47	- 34	9,905	80,661	24
20-24	248	63,104	88,050	8,888	10,266	+1,378	+999	9,887	80,506	62
25-29	312	56,851	77,125	8,007	8,992	+985	+714	8,721	71,012	88
30-34	315	52,923	64,625	7,454	7,535	+ 81	+ 59	7,513	61,175	103
35-39	316	52,607	55,875	7,410	6,515	-895	-649	6,761	55,052	115
40-44	350	45,107	50,250	6,353	5,859	-494	-358	5,995	48,815	143
45-49	352	33,450	47,200	4,711	5,503	+792	+574	5,285	43,034	164
50-54	270	25,696	39,250	3,619	4,576	+957	+674	4,313	35,119	154
55-59	206	19,692	28,050	2,774	3,270	+496	+359	3,133	25,511	161
60-64	157	16,779	19,825	2,364	2,311	- 53	- 38	2,326	18,940	166
65-69	125	13,042	15,500	1,837	1,807	- 30	- 22	1,815	14,779	169
70-74	61	7,795	10,750	1,095	1,253	+158	+115	1,210	9,852	124
75-79	25	3,589	6,630	506	773	+267	+194	700	5,700	88
80+	17	2,689	3,668	379	428	+ 49	+ 36	415	3,379	71
Unspecified	3	—	—	—	—	—	—	—	—	—
Total All Ages	2,922	710,005	857,698	100,000	100,000	+5,729 -5,729	+4,154 -4,154	100,000	814,262	—



TABLE 15

41

State of New South Wales - Calculation of Central Death Rates from Tuberculosis of the Respiratory System 1906-10 - Females.

Age Group Years	Number of Deaths 1906-10 (5 yrs)	Population at Census 1901	Population at Census 1911	Population at Census 1901 per 10 <sup>5</sup>	Population at Census 1911 per 10 <sup>5</sup>	(5)-(4)	(6)x.725	(4)+(7)	Mean Population 1906-10	Central Death Rate 1906-10 per 10 <sup>5</sup>
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0-4	34	78,564	99,075	12,183	12,556	+373	+270	12,453	92,954	7
5-9	14	81,957	84,375	12,710	10,693	-2,017	-1,462	11,248	83,960	3
10-14	33	80,107	77,125	12,423	9,775	-2,648	-1,920	10,503	78,398	8
15-19	181	70,746	81,850	10,971	10,373	-598	-434	10,537	78,652	46
20-24	350	64,892	83,025	10,063	10,522	+459	+333	10,396	77,600	90
25-29	336	56,121	73,000	8,703	9,252	+549	+398	9,101	67,934	99
30-34	281	46,762	59,975	7,252	7,601	+349	+253	7,505	56,020	100
35-39	246	41,651	50,875	6,459	6,448	-11	-8	6,451	48,153	102
40-44	209	33,483	44,075	5,192	5,586	+394	+286	5,478	40,890	102
45-49	162	24,035	37,675	3,727	4,775	+1,048	+760	4,487	33,493	97
50-54	106	19,353	29,675	3,001	3,761	+760	+551	3,552	26,514	80
55-59	84	15,398	21,800	2,388	2,763	+375	+272	2,660	19,855	85
60-64	74	12,209	16,350	1,893	2,072	+179	+130	2,023	15,100	98
65-69	58	9,251	12,900	1,435	1,635	+200	+145	1,580	11,794	98
70-74	28	5,208	8,800	808	1,115	+307	+213	1,031	7,696	73
75-79	14	2,849	5,145	442	652	+210	+152	594	4,434	63
80+	2	2,255	3,316	350	421	+71	+51	401	2,993	13
Unspecified	2	—	—	—	—	—	—	—	—	—
Total All Ages	2,214	644,841	789,036	100,000	100,000	+5,274 -5,274	+3,824 -3,824	100,000	746,440	—

TABLE 16

Metropolitan Area of Sydney, New South Wales - Number of Deaths from Tuberculosis of the Respiratory System 1906-10

Year	Ages - years																										Unspec- ified	Total - All Ages
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-29	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-99	100+			
	MALES																											
1906	-	-	1	1	1	3	1	8	31	27	24	29	33	27	18	13	11	9	5	2	1	-	-	-	-	-	253	
1907	1	-	-	-	-	1	1	9	18	24	26	18	21	23	19	15	14	9	10	1	1	-	-	-	-	-	213	
1908	2	2	1	1	-	6	1	5	21	23	22	28	20	21	22	17	6	6	6	3	-	1	-	-	-	-	208	
1909	2	-	1	-	-	3	-	10	20	34	20	28	26	31	9	13	13	14	4	3	-	-	-	-	-	-	229	
1910	-	1	-	1	-	2	1	10	18	27	20	24	26	25	30	21	10	9	2	3	-	-	-	-	-	-	228	
Total 1906-10	5	3	3	3	1	15	4	42	108	135	112	127	126	137	98	79	54	47	27	17	2	1	-	-	-	-	1,131	
Year	FEMALES																										Unspec- ified	Total - All Ages
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-29	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-99	100+			
	FEMALES																											
1906	1	-	-	-	-	1	1	3	22	29	23	20	21	16	4	5	5	1	1	1	-	-	-	-	-	-	176	
1907	-	2	-	1	1	4	2	20	32	23	29	18	23	15	12	12	6	7	3	1	-	-	-	-	-	-	209	
1908	1	1	-	-	-	2	-	15	37	39	23	12	20	13	13	7	2	8	7	2	-	-	-	-	-	-	203	
1909	-	-	-	-	-	-	-	18	20	32	26	14	17	17	11	5	11	4	1	2	1	-	-	-	-	-	183	
1910	1	-	-	-	-	1	1	11	36	45	22	22	21	17	11	10	6	7	4	-	-	-	-	-	-	-	215	
Total 1906-10	3	3	-	1	1	8	4	86	154	162	123	86	102	78	51	39	30	27	16	6	1	-	-	-	-	-	986	

TABLE 17

143

Metropolitan Area of Sydney and the Rest of the State of New South Wales -  
 Calculation of Central Death Rates from Tuberculosis of the Respiratory System 1906-10

Males

Age Group Years	Metropolitan Area of Sydney										Remainder of New South Wales		
	Number of Deaths 1906-10 (5 yrs)	Population at Census 1901	Population at Census 1911	Population at Census 1901 per 10 <sup>5</sup>	Population at Census 1911 per 10 <sup>5</sup>	(5)-(4)	(6)x.775	(4)+(7)	Mean Population 1906-10	Central Death Rates 1906-10 per 10 <sup>5</sup>	Number of Deaths 1906-10 (5 yrs)	Mean Population 1906-10	Central Death Rates 1906-10 per 10 <sup>5</sup>
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
0-4	15	25,363	34,563	10,494	11,305	+811	+588	11,082	31,760	9	26	63,688	8
5-9	4	27,670	28,569	11,449	9,344	-2,105	-1,526	9,923	28,438	3	9	56,840	3
10-14	8	27,597	26,738	11,419	8,746	-2,673	-1,938	9,481	27,177	4	13	52,829	5
15-19	42	23,869	29,572	9,876	9,673	-203	-147	9,729	27,882	30	56	52,779	21
20-24	108	21,889	32,279	9,057	10,558	+1,501	+1,088	10,145	29,075	74	140	51,431	54
25-29	135	19,664	28,964	8,136	9,474	+1,338	+970	9,106	26,097	103	177	44,915	79
30-34	117	18,634	24,346	7,710	7,963	+253	+183	7,893	22,621	99	203	38,554	105
35-39	127	19,538	20,223	8,084	6,615	-1,469	-1,065	7,019	20,116	126	189	34,936	108
40-44	126	16,914	18,604	6,998	6,085	-913	-662	6,336	18,158	139	224	30,657	146
45-49	137	12,201	17,470	5,048	5,714	+666	+483	5,531	15,851	173	245	27,183	158
50-54	98	8,685	14,979	3,594	4,899	+1,305	+946	4,540	13,011	151	177	22,108	156
55-59	99	6,142	10,126	2,541	3,312	+771	+559	3,100	8,884	178	127	16,627	153
60-64	54	4,833	6,866	2,000	2,246	+246	+178	2,178	6,242	173	103	12,698	162
65-69	47	3,499	4,870	1,448	1,593	+145	+105	1,553	4,451	211	78	10,328	151
70-74	27	2,035	3,221	842	1,054	+212	+154	996	2,854	189	34	6,998	97
75-79	12	899	1,908	372	624	+252	+183	555	1,591	151	13	4,109	63
80+	3	551	1,031	228	337	+109	+79	307	880	68	9	2,499	77
Unspecified	-	1,700	1,399	704	458	-246	-178	526	1,507	-	3	-	-
Total All Ages	1,131	241,683	305,728	100,000	100,000	+7609	+5,516	100,000	286,590	-	1,771	529,179	-



# TABLE 18

1414

Metropolitan Area of Sydney, and the Remainder of the State of New South Wales -  
 Calculation of Central Death Rates from Tuberculosis of the Respiratory System 1906-10  
 Females.

Age-Group Years	Metropolitan Area of Sydney									Remainder of New South Wales			
	Number of Deaths 1906-10 (5 yrs)	Population at Census 1901	Population at Census 1911	Population at Census 1901 per 105	Population at Census 1911 per 105	(5)-(4)	(6)x705	(4)+(7)	Mean Population 1906-10	Central Death Rates 1906-10 per 105	Number of Deaths 1906-10 (5 yrs)	Mean Population 1906-10	Central Death Rates 1906-10 per 105
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
0-4	8	24,747	33,139	10,051	10,235	+184	+133	10,184	30,581	5	26	62,373	8
5-9	4	26,834	28,288	10,899	8,737	-2,162	-1,567	9,337	28,023	3	10	55,937	4
10-14	13	22,789	27,317	11,286	8,437	-2,849	-2,066	9,220	27,687	9	20	50,711	8
15-19	86	26,281	32,480	19,674	10,032	-642	-465	10,209	30,656	56	95	47,996	40
20-24	154	26,552	37,158	10,784	11,476	+692	+502	11,286	33,891	91	196	43,709	90
25-29	162	23,632	32,995	9,598	10,191	+593	+430	10,028	30,113	108	174	37,821	92
30-34	123	19,966	26,689	8,109	8,743	+634	+47	8,206	24,642	100	158	31,378	101
35-39	86	18,190	22,386	7,388	6,914	-474	-344	7,044	21,152	81	160	27,001	119
40-44	102	14,471	19,509	5,877	6,025	+148	+107	5,984	17,969	114	107	22,921	93
45-49	78	10,223	17,501	4,152	5,405	+1,253	+908	5,060	15,195	103	84	18,298	92
50-54	51	8,229	14,003	3,342	4,325	+983	+713	4,055	12,177	84	55	14,337	77
55-59	39	6,354	9,656	2,581	2,982	+401	+291	2,872	8,624	90	45	11,231	80
60-64	30	4,972	7,659	2,019	2,366	+347	+252	2,271	6,820	88	44	8,280	106
65-69	27	3,687	5,931	1,498	1,832	+334	+242	1,740	5,225	103	31	6,569	94
70-74	16	2,163	3,816	878	1,179	+301	+218	1,096	3,291	97	12	4,405	54
75-79	6	1,083	2,236	440	691	+251	+182	622	1,868	64	8	2,566	62
80+	1	793	1,367	322	422	+100	+73	395	1,186	17	1	1,80	11
Unspecified	-	251	1,645	102	508	+406	+294	396	1,189	-	2	-	-
Total All Ages	986	246,217	323,775	100,000	109,000	+6,122	+4,442	109,000	300,289	-	1,228	447,360	-



TABLE 19

State of Victoria - Number of Deaths from Pulmonary Tuberculosis 1911-20

Year	Total under 10	Age - years										65-69	70+	Total - All Ages	
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59				60-64
MALES															
1911	4	4	26	50	56	67	60	88	61	59	43	28	23	29	598
1912	10	3	22	55	64	67	63	56	76	63	39	21	15	17	571
1913	6	4	26	52	51	61	67	60	71	59	48	22	23	16	566
1914	9	7	17	54	60	72	67	58	56	64	36	26	19	16	561
1915	2	2	19	48	51	53	66	51	72	58	41	27	21	16	527
1916	9	6	16	60	72	55	69	72	68	67	48	30	20	14	606
1917	2	2	21	51	41	58	70	60	63	58	50	40	16	17	549
1918	2	2	18	47	39	55	67	56	58	72	54	41	19	12	542
1919	5	2	22	58	77	80	72	65	68	65	67	31	17	10	639
1920	12	3	17	47	64	65	57	60	70	58	46	39	16	16	570
Total 1911-20	61	35	204	522	575	633	658	626	663	623	472	305	189	163	5729
FEMALES															
1911	8	9	54	87	79	73	55	43	38	19	18	12	7	8	510
1912	6	19	52	99	80	51	60	52	36	20	6	12	11	12	516
1913	6	7	52	78	83	60	55	47	32	28	12	5	11	10	486
1914	2	4	46	70	83	61	57	40	35	20	24	9	8	11	470
1915	5	10	32	66	77	44	44	40	23	37	20	5	6	11	415
1916	2	10	46	77	72	44	49	42	39	18	17	7	5	11	441
1917	4	6	38	67	74	66	50	27	29	14	13	4	5	6	403
1918	7	7	38	83	86	51	50	41	30	24	16	14	2	3	452
1919	3	4	43	83	75	54	54	32	35	20	16	11	6	9	445
1920	6	6	33	67	76	55	45	42	26	21	15	13	6	9	420
Total 1911-20	49	82	434	777	785	559	519	406	323	216	157	92	67	90	4558

**TABLE 20**  
State of Victoria - calculation of Central Death Rates from Pulmonary Tuberculosis 1911-20. 46

Age Group Years	Number Deaths 1911-20 (10 yrs)	Population at Census 1911	Population at Census 1921	Population at Census 1911 per 10 <sup>5</sup>	Population at Census 1921 per 10 <sup>5</sup>	(5)-(4)	(6) x (10) <sup>5</sup>	(4) + (7)	Mean Population 1911-20	Central Death Rates 1911-20 per 10 <sup>5</sup>
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
<b>MALES</b>										
Under-10	61	139,220	158,900	21,236	21,055	-181	-86	21,150	148,249	4
10-14	35	63,220	72,100	9,643	9,553	-90	-43	9,600	67,290	5
15-19	204	68,760	66,500	10,488	8,811	-1,677	-196	9,692	67,935	30
20-24	522	62,240	61,200	9,494	8,109	-1,385	-658	8,836	61,935	84
25-29	575	52,720	63,400	8,042	8,400	+358	+170	8,212	57,561	100
30-34	633	45,040	59,720	6,870	7,913	+1,043	+496	7,366	51,631	123
35-39	658	41,780	57,160	6,373	6,779	+406	+193	6,566	46,024	143
40-44	626	42,340	44,900	6,458	5,949	-509	-242	6,216	43,571	144
45-49	663	41,280	40,650	6,297	5,386	-911	-433	5,864	41,103	161
50-54	623	31,540	39,140	4,857	5,186	+329	+156	5,013	35,138	177
55-59	472	19,800	36,220	3,020	4,799	+1,779	+845	3,865	27,092	174
60-64	305	13,960	26,180	2,129	3,469	+1,340	+637	2,766	19,388	157
65-69	189	11,360	15,520	1,433	2,056	+323	+153	1,886	13,220	143
70 +	163	22,031	19,134	3,360	2,535	-825	-392	2,968	20,804	78
Total All Ages	5,729	655,591	754,724	100,000	100,000	+5,578	+2,650	100,000	700,941	—
<b>FEMALES</b>										
Under-10	49	135,120	154,240	20,474	19,862	-612	-290	20,184	143,908	3
10-14	82	62,700	70,400	9,501	9,066	-435	-207	9,294	66,265	12
15-19	434	68,100	65,430	10,319	8,426	-1,893	-899	9,420	67,163	65
20-24	779	65,400	66,820	9,910	8,605	-1,305	-620	9,290	66,236	118
25-29	785	56,100	70,060	8,500	9,022	+522	+248	8,748	62,372	126
30-34	559	48,880	63,820	7,407	8,218	+811	+385	7,792	55,556	101
35-39	519	45,040	54,460	6,825	7,013	+188	+89	6,914	49,295	105
40-44	406	40,400	42,300	6,425	6,091	-334	-159	6,266	44,675	91
45-49	323	39,340	43,150	5,961	5,556	-405	-192	5,769	41,132	79
50-54	216	29,200	40,150	4,424	5,170	+746	+354	4,778	34,066	63
55-59	157	19,320	35,300	2,927	4,546	+1,619	+769	3,696	26,352	60
60-64	92	14,160	26,490	2,146	3,411	+1,265	+601	2,747	19,586	47
65-69	67	12,180	15,825	1,845	2,038	+193	+92	1,937	13,810	49
70 +	90	22,020	23,111	3,336	2,976	-360	-171	3,165	22,566	40
Total All Ages	4,558	659,960	776,556	100,000	100,000	+5,344	+2,538	100,000	712,982	—

TABLE 21

State of Queensland - Number of Deaths from Tuberculosis of the Respiratory System 1911-20

Year	Age - years												Inspected	Total - All Ages							
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34	35-39			40-44	45-49	50-54	55-59	60-64	65-69	70-74
	MALES																				
1911	3	-	-	-	-	3	1	5	13	18	21	20	30	39	16	21	19	11	4	2	223
1912	-	-	-	-	-	-	-	1	5	29	28	22	27	27	27	16	13	10	4	2	225
1913	1	1	2	-	-	4	-	1	14	20	29	26	24	18	33	20	14	10	5	2	220
1914	2	-	-	-	-	2	-	1	15	36	18	23	16	27	21	21	15	9	4	5	209
1915	1	-	-	-	-	1	-	1	13	22	29	27	31	20	25	18	17	11	6	4	229
1916	-	-	1	-	-	1	-	-	15	22	25	38	31	25	29	29	21	5	6	3	252
1917	1	-	-	-	-	1	-	-	18	12	23	24	23	22	17	25	15	11	5	2	203
1918	-	1	-	-	-	1	-	8	19	26	26	32	21	18	23	15	14	8	6	5	222
1919	-	-	-	-	-	-	1	4	12	23	23	41	19	36	23	27	20	8	8	5	250
1920	-	1	-	-	-	1	2	2	8	22	22	27	27	24	26	23	19	7	2	5	218
Total 1911-20	8	3	3	-	-	14	2	39	141	230	244	280	249	256	240	208	167	90	50	35	2,251
	FEMALES																				
1911	-	-	-	-	-	-	-	8	25	15	18	20	15	9	7	3	7	4	2	-	134
1912	-	-	-	-	-	-	1	1	20	12	13	10	10	11	8	7	3	5	1	-	103
1913	1	-	-	1	-	3	-	2	16	26	21	10	11	12	9	7	3	5	4	-	137
1914	2	1	-	-	-	3	2	4	12	10	18	12	7	6	8	1	-	2	-	-	87
1915	-	-	-	-	-	-	1	6	18	17	26	13	11	12	4	3	1	1	3	-	117
1916	1	1	-	-	-	2	-	7	10	25	17	16	9	7	4	9	4	1	-	1	114
1917	-	-	-	-	-	-	2	6	12	19	11	17	8	12	5	9	2	-	-	3	106
1918	-	-	-	2	-	3	-	4	10	12	19	12	14	9	8	3	5	2	1	2	106
1919	1	1	-	-	-	2	-	4	20	25	28	17	13	10	8	6	7	2	1	-	146
1920	-	-	-	-	-	-	1	5	20	19	15	17	11	8	7	10	5	7	2	-	123
Total 1911-20	5	3	-	3	2	13	7	53	163	180	186	144	109	96	68	58	37	24	14	6	1,173



TABLE 22

48-

State of Queensland - Calculation of Central Death Rates from  
Tuberculosis of the Respiratory System 1911-20 - Males

Age Group Years	Number of Deaths 1911-20 (10 yrs)	Population at Census 1911	Population at Census 1921	Population at Census 1911 per 10 <sup>5</sup>	Population at Census 1921 per 10 <sup>5</sup>	(5) - (4)	(6) x .475	(4) + (7)	Mean Population 1911-20	Central Death Rate 1911-20 per 10 <sup>5</sup>
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0-4	14	37,370	46,170	11,341	11,572	+231	+110	11,451	41,321	3
5-9	7	32,620	43,850	9,900	10,991	+1,091	+518	10,418	37,593	1
10-14	6	31,530	37,900	9,569	9,499	-70	-33	9,536	34,411	2
15-19	39	32,850	33,570	9,969	8,414	-1,555	-739	9,230	33,306	12
20-24	141	34,120	33,000	10,355	8,271	-2,084	-990	9,365	33,793	42
25-29	230	29,300	33,950	8,892	8,510	-382	-181	8,711	31,433	73
30-34	264	24,460	33,605	7,423	8,423	+1,000	+475	7,898	28,500	86
35-39	280	21,650	28,425	6,570	7,125	+555	+264	6,834	24,660	114
40-44	269	20,270	23,850	6,152	5,978	-174	-83	6,069	21,900	114
45-49	256	18,830	20,225	5,715	5,069	-646	-307	5,408	19,515	131
50-54	240	15,270	18,725	4,634	4,693	+59	+28	4,662	16,823	143
55-59	208	10,490	16,075	3,184	4,029	+845	+401	3,585	12,936	161
60-64	167	7,510	12,140	2,279	3,043	+764	+363	2,642	9,534	175
65-69	90	5,770	7,940	1,751	1,990	+239	+114	1,865	6,730	134
70-74	50	4,290	4,753	1,302	1,191	-111	-53	1,249	4,507	111
75+	35	3,176	4,791	964	1,202	+238	+113	1,077	3,886	90
Unspecified	-	-	-	-	-	-	-	-	-	-
Total All Ages	2,251	329,506	398,969	100,000	100,000	+5,022 -5,022	+2,386 -2,386	100,000	360,848	-



# TABLE 23

49

State of Queensland - Calculation of Central Death Rates from Tuberculosis of the Respiratory System 1911-20 - Females.

Age Group years	Number of Deaths 1911-20	Population at Census 1911	Population at Census 1921	Population at Census 1911 per 10 <sup>5</sup>	Population at Census 1921 per 10 <sup>5</sup>	(5)-(4)	(6)x.475	(4)+(7)	Mean Population 1911-20	Central Death Rates 1911-20 per 10 <sup>5</sup>
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0-4	13	36,000	43,980	13.029	12,319	- 710	- 337	12,692	29,608	3
5-9	7	31,720	42,800	11,480	11,989	+ 509	+ 242	11,722	36,581	2
10-14	14	30,780	36,748	11,140	10,293	- 847	- 402	10,738	33,570	4
15-19	53	31,340	32,488	11,343	9,099	- 2,244	- 1,066	10,277	32,071	17
20-24	163	29,410	33,195	10,644	9,298	- 1,346	- 639	10,005	31,222	52
25-29	180	23,600	32,475	8,541	9,097	+ 556	+ 264	8,805	25,478	66
30-34	186	19,500	29,285	7,057	8,203	+ 1,146	+ 544	7,601	23,720	78
35-39	144	16,860	23,725	6,102	6,646	+ 544	+ 259	6,361	19,851	73
40-44	109	14,730	19,480	5,331	5,457	+ 126	+ 60	5,391	16,824	65
45-49	96	12,310	16,290	4,455	4,563	+ 108	+ 51	4,506	14,062	68
50-54	68	9,320	13,960	3,373	3,910	+ 537	+ 255	3,628	11,322	60
55-59	58	6,580	11,150	2,382	3,123	+ 741	+ 352	2,734	8,532	68
60-64	37	4,930	8,550	1,784	2,395	+ 611	+ 290	2,074	6,472	57
65-69	24	4,190	5,450	1,517	1,526	+ 9	+ 4	1,521	4,746	51
70-74	14	2,698	3,515	976	985	+ 9	+ 4	980	3,058	46
75+	6	2,339	3,918	846	1,097	+ 251	+ 119	965	3,011	20
Unspecified	1	-	-	-	-	-	-	-	-	-
Total All Ages	1,173	256,307	357,003	109,000	100,000	+ 5,147 - 5,147	+ 2,444 - 2,444	100,000	312,068	-

TABLE 24

Metropolitan Area of Brisbane, Queensland — Number of Deaths from Tuberculosis of the Respiratory System 1911-20

Year	Ages — Years													Total 1911-20									
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44		45-49	50-54	55-59	60-64	65-69	70-74	75+	1911-20	
	MALES																						
1911	-	-	-	-	-	1	-	2	6	9	7	8	6	12	5	6	5	4	-	1	-	72	
1912	-	-	-	-	-	-	1	-	5	15	12	9	8	8	9	14	2	2	1	1	-	76	
1913	-	-	1	-	-	-	-	-	2	9	14	12	5	6	12	5	4	4	1	1	-	76	
1914	-	-	-	-	-	-	-	1	6	19	9	6	8	6	6	3	4	4	2	-	-	74	
1915	-	-	-	-	-	-	-	2	3	10	15	9	9	6	9	5	6	1	3	2	-	80	
1916	-	-	-	-	-	-	-	1	7	10	9	23	12	8	12	6	6	2	3	-	-	99	
1917	-	-	-	-	-	-	-	1	8	9	15	10	7	8	6	11	4	3	-	-	-	82	
1918	-	-	-	-	-	-	-	4	10	20	15	13	5	11	8	1	2	3	2	-	-	94	
1919	-	-	-	-	-	-	-	1	4	15	7	14	7	13	8	7	7	1	3	2	-	89	
1920	-	-	-	-	-	-	-	1	4	10	17	14	9	6	9	5	9	2	-	2	-	88	
Total 1911-20	-	-	1	-	-	1	1	13	55	126	120	118	76	84	84	53	49	26	14	9	-	830	
FEMALES																							
1911	-	-	-	-	-	-	-	2	12	4	8	10	4	5	3	1	1	2	-	-	-	52	
1912	-	-	-	-	-	-	-	-	6	4	2	3	5	5	4	-	-	3	-	-	-	32	
1913	-	-	-	-	-	-	-	3	8	15	12	6	4	8	3	6	1	2	-	-	-	68	
1914	-	-	-	-	-	-	2	2	3	4	10	3	4	3	4	-	-	1	-	-	-	36	
1915	-	-	-	-	-	-	1	1	9	8	18	3	8	6	1	2	-	1	3	-	-	61	
1916	-	-	-	-	-	-	-	1	5	13	8	9	1	3	-	4	1	-	1	1	-	46	
1917	-	-	-	-	-	-	-	3	6	9	5	7	5	3	-	4	-	-	2	2	-	44	
1918	-	-	-	-	-	-	-	2	3	5	3	5	6	5	4	-	2	-	1	1	-	36	
1919	-	-	-	-	-	-	-	1	10	11	10	5	4	6	4	2	5	1	-	-	-	60	
1920	-	-	-	-	-	-	-	4	11	9	9	5	1	3	3	6	2	1	-	-	-	54	
Total 1911-20	-	-	-	-	-	-	3	19	73	82	85	56	42	47	26	25	12	11	4	4	-	489	

TABLE 25

51.

Metropolitan Area of Brisbane and the Remainder of the State of Queensland—  
calculation of Central Death Rates from Tuberculosis of the Respiratory System 1911-20.

Males

Age Group Years	Metropolitan Area of Brisbane										Remainder of Queensland		
	Number of Deaths 1911-20 (10 yrs)	Population at Census 1911	Population at Census 1921	Population at Census 1911 per 10 <sup>5</sup>	Population at Census 1921 per 10 <sup>5</sup>	(5)-(4)	(6)x.475	(4)+(7)	Mean Population 1911-20	Central Death Rates 1911-20 per 10 <sup>5</sup>	Number of Deaths 1911-20 (10 yrs)	Mean Population 1911-20	Central Death Rates 1911-20 per 10 <sup>5</sup>
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
0-4	1	7,596	11,420	11,232	11,302	+70	+33	11,765	9,219	1	13	32,102	4
5-9	1	6,911	10,992	10,219	10,878	+659	+313	10,532	8,619	1	1	28,974	0
10-14	1	7,025	9,562	10,388	9,463	-925	-439	9,949	8,142	1	5	26,269	2
15-19	13	7,240	8,401	10,706	8,314	-2,392	-1,136	9,570	7,832	17	26	25,474	10
20-24	55	7,082	8,060	10,452	7,977	-2,475	-1,185	9,287	7,600	72	86	26,193	33
25-29	126	5,863	9,023	8,670	8,930	+260	+123	8,793	7,196	175	104	24,225	43
30-34	120	4,910	9,221	7,260	9,125	+1,865	+886	8,146	6,667	180	124	21,833	57
35-39	118	4,110	7,406	6,071	7,329	+1,252	+595	6,672	5,460	216	162	19,200	84
40-44	76	3,735	6,206	5,523	6,142	+619	+294	5,817	4,761	160	173	17,139	101
45-49	84	3,761	4,939	5,561	4,888	-673	-320	5,241	4,289	196	172	15,226	113
50-54	89	3,015	4,287	4,458	4,243	-215	-102	4,356	3,565	236	156	13,258	118
55-59	53	2,013	3,997	2,977	3,956	+979	+465	3,442	2,817	188	155	10,119	153
60-64	49	1,438	2,988	2,126	2,957	+831	+395	2,521	2,063	238	118	7,471	158
65-69	26	1,138	1,997	1,683	1,976	+293	+139	1,822	1,491	174	64	5,239	122
70-74	14	871	1,173	1,288	1,161	-127	-60	1,228	1,005	139	36	3,502	103
75+	9	709	1,189	1,048	1,177	+129	+61	1,109	908	99	26	2,978	87
Unspecified	—	211	184	312	182	-130	-62	250	205	—	—	—	—
Total All Ages	830	67,628	101,045	100,000	100,000	+695 -695	+3304 -3304	100,000	81,839	—	1421	279,214	—



TABLE 26

52

Metropolitan Area of Brisbane and the Remainder of the State of Queensland  
 Calculation of Central Death Rates from Tuberculosis of the Respiratory System 1911-20.  
 Females.

Age Group Years	Metropolitan Area of Brisbane										Remainder of Queensland		
	Number of Deaths 1911-20 (per 10)	Population at Census 1911	Population at Census 1921	Population at Census 1911 per 10 <sup>5</sup>	Population at Census 1921 per 10 <sup>5</sup>	(5)-(4)	(6) x .475	(4) + (7)	Mean Population 1911-20	Central Death Rates 1911-20 per 10 <sup>5</sup>	Number of Deaths 1911-20 (per 10)	Mean Population 1911-20	Central Death Rates 1911-20 per 10 <sup>5</sup>
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
0-4	—	7,209	10,961	10,033	10,065	+32	+15	10,048	8,796	—	13	30,812	4
5-9	—	6,605	10,884	9,193	9,995	+802	+381	9,574	8,381	—	7	28,200	2
10-14	3	7,132	9,580	9,926	8,797	-1,129	-536	9,390	8,220	4	11	25,290	4
15-19	19	8,035	9,426	11,183	8,656	-2,527	-1,200	9,983	8,739	22	34	23,332	15
20-24	73	8,416	10,666	11,713	9,794	-1,919	-912	10,801	9,456	77	90	21,766	41
25-29	82	6,619	10,779	9,212	9,898	+686	+326	9,538	8,350	98	98	19,128	51
30-34	85	5,441	9,759	7,573	8,961	+1,388	+659	8,232	7,207	118	101	16,513	61
35-39	56	4,620	7,770	6,430	7,135	+705	+335	6,765	5,922	95	88	13,929	63
40-44	42	4,277	6,541	5,952	6,006	+54	+26	5,978	5,233	80	67	11,591	58
45-49	47	3,769	5,532	5,245	5,080	-165	-78	5,167	4,573	104	49	9,539	51
50-54	26	2,899	4,936	4,035	4,533	+498	+236	4,271	3,739	70	42	7,583	55
55-59	25	2,024	3,995	2,817	3,668	+851	+404	3,221	2,820	89	33	5,712	58
60-64	12	1,540	3,115	2,143	2,860	+717	+341	2,484	2,175	55	25	4,297	58
65-69	11	1,361	2,015	1,894	1,850	-44	-21	1,873	1,640	67	13	3,106	42
70-74	4	919	1,284	1,279	1,179	-100	-48	1,231	1,078	37	10	1,980	51
75+	4	744	1,376	1,035	1,264	+229	+109	1,144	1,001	40	2	2,010	10
Unspecified	—	242	282	337	259	-78	-37	300	263	—	1	—	—
Total All Ages	489	71,852	108,901	100,000	100,000	+5,962 -5,962	+2,832 -2,832	100,000	87,543	—	684	224,788	—



TABLE 27

Commonwealth of Australia - Number of Deaths from All Forms of Tuberculosis Combined according to Occupation 1911-22 Males

Occupation	Year	Age Group - years																	Unspec- ified	Total All Ages
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+				
I Professional class	1911	-	3	15	15	21	13	16	12	4	8	2	2	1	-	-	-	112		
	1912	-	3	5	18	17	19	8	18	7	4	5	1	1	-	-	-	106		
	1913	-	3	13	7	18	13	9	10	6	9	5	1	1	1	-	-	96		
	1914	-	-	7	12	17	21	8	10	14	5	4	1	2	-	-	1	102		
	1915	-	-	7	15	11	10	9	5	9	8	4	3	2	1	-	-	84		
	1916	-	3	21	23	21	20	12	11	9	7	5	2	2	-	-	-	136		
	1917	-	5	28	26	31	16	14	20	4	3	2	5	-	-	-	-	154		
	1918	-	2	35	32	29	25	20	17	16	9	1	5	-	1	-	-	192		
	1919	-	3	31	35	36	33	15	23	17	10	9	1	-	1	-	-	214		
	1920	-	1	11	35	19	15	16	18	8	5	2	5	1	-	-	-	136		
	1921	-	-	13	40	30	30	14	20	8	4	4	1	2	1	-	-	167		
	1922	-	1	20	38	25	22	15	17	8	6	6	2	-	1	-	-	161		
Total		-	24	206	296	275	237	156	181	110	78	49	29	12	6	-	1	1,660		
II Domestic class	1911	-	1	5	15	13	8	17	13	6	8	1	-	-	-	-	-	87		
	1912	-	2	9	8	13	9	10	12	8	4	2	1	1	-	-	-	79		
	1913	-	-	4	11	12	16	17	11	14	7	-	-	2	-	-	1	90		
	1914	-	3	3	14	15	10	14	7	12	10	2	3	1	1	1	1	97		
	1915	-	3	9	8	12	14	6	6	10	4	4	6	2	1	-	-	85		
	1916	-	-	3	11	10	12	7	5	3	12	5	4	-	-	-	1	73		
	1917	-	-	2	3	11	11	13	12	7	9	9	-	1	-	-	-	78		
	1918	-	-	4	4	10	14	3	13	8	6	5	1	-	-	-	-	68		
	1919	-	-	4	7	13	8	7	12	8	7	3	-	1	1	-	-	71		
	1920	-	-	2	7	6	14	15	13	9	6	4	2	-	-	-	-	78		
	1921	-	-	3	11	9	10	17	15	13	8	5	4	-	-	-	-	95		
	1922	-	-	4	4	8	10	8	13	8	9	7	6	1	-	-	-	78		
Total		-	9	52	103	132	136	129	132	106	90	47	27	9	3	1	3	979		

TABLE 28

Commonwealth of Australia—Number of Deaths from All Forms of Tuberculosis Combined according to Occupation 1911-22—Males

Occupation	Year	Age - Group : Years																	Unspec-ified	Total-All Ages
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+				
III Mercantile class	1911	-	11	38	44	47	30	29	26	22	11	11	4	3	2	1	1	280		
	1912	-	10	34	42	38	31	29	29	23	13	7	5	2	2	1	-	266		
	1913	-	12	39	46	53	43	28	19	29	17	7	4	4	2	1	2	306		
	1914	-	12	47	47	48	51	25	32	27	17	13	7	4	2	2	-	329		
	1915	-	12	39	34	36	47	35	25	23	10	4	8	2	1	2	-	278		
	1916	-	12	40	43	40	50	35	42	22	12	7	10	4	1	-	1	319		
	1917	-	8	27	35	40	44	36	24	21	9	7	8	2	-	-	-	261		
	1918	-	10	27	42	45	37	31	24	20	20	13	9	3	3	-	-	284		
	1919	-	14	27	55	57	48	40	33	25	23	12	10	3	1	-	-	348		
	1920	-	11	35	47	54	43	47	30	28	25	21	6	1	-	2	-	350		
	1921	-	16	23	46	50	32	32	30	17	21	10	8	5	2	-	-	292		
	1922	-	16	28	35	47	32	28	32	28	25	25	8	5	-	1	-	310		
Total	-		144	404	516	555	488	395	346	280	203	137	87	38	16	10	4	3,623		
IV class Engaged in Transport & Communication	1911	1	-	17	29	16	16	21	18	17	12	6	1	5	1	-	-	160		
	1912	1	7	12	21	17	18	14	16	15	6	7	2	2	-	-	-	138		
	1913	-	6	17	22	18	19	22	15	14	7	10	9	3	1	-	-	163		
	1914	-	6	22	23	21	18	22	17	16	11	4	4	3	1	-	-	168		
	1915	-	7	16	29	23	20	11	11	12	13	6	4	-	2	-	1	155		
	1916	1	7	24	26	23	24	11	15	18	12	8	4	1	2	-	-	176		
	1917	-	2	16	24	29	16	19	16	14	13	5	5	3	-	3	-	165		
	1918	-	4	9	17	31	25	18	14	14	9	3	2	1	1	-	1	149		
	1919	-	5	19	27	34	22	22	19	16	14	6	4	1	-	-	2	191		
	1920	-	9	18	21	37	31	19	19	8	7	10	1	1	1	-	-	182		
	1921	-	6	15	18	21	23	21	20	14	13	7	2	2	1	-	2	165		
	1922	-	6	19	28	17	27	15	19	13	7	10	6	-	2	-	-	169		
Total	3	65	204	285	287	259	215	199	171	124	82	44	22	12	3	6	1,981			

TABLE 29

Commonwealth of Australia - Number of Deaths from All Forms of Tuberculosis Combined according to Occupation 1911-22 - Males

Occupation	Year	Age Group - years																	Unspec- ified	Total Deaths
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+				
V Manufacturing class	1911	-	13	28	30	26	27	36	25	14	17	13	6	1	1	-	1	238		
	1912	-	12	30	35	28	36	29	35	25	21	14	8	2	1	-	-	276		
	1913	-	15	25	28	40	27	31	22	25	16	4	9	7	-	-	-	249		
	1914	-	7	29	24	34	33	33	16	33	11	8	5	-	1	-	1	235		
	1915	-	4	26	28	31	32	30	28	23	14	13	8	4	1	-	-	242		
	1916	-	8	24	29	23	31	30	21	30	23	5	10	3	2	1	-	240		
	1917	-	4	20	20	32	23	18	24	19	18	12	8	4	3	-	-	205		
	1918	-	5	20	32	23	37	20	22	20	13	14	11	5	1	1	-	224		
	1919	1	11	28	28	27	37	31	23	26	20	17	8	7	1	-	1	266		
	1920	-	10	27	29	35	28	26	22	27	17	7	7	1	2	1	-	239		
	1921	-	9	30	32	34	33	40	21	10	17	9	6	6	1	1	-	249		
	1922	-	10	14	27	18	30	27	17	27	12	8	7	2	-	-	1	200		
Total	1	108	301	342	351	374	351	276	279	199	124	93	42	14	4	4	2,863			
VI class engaged in Building Construction	1911	-	3	7	8	12	6	9	15	11	12	5	2	3	-	1	-	94		
	1912	-	2	8	18	8	7	9	12	9	12	5	3	3	3	-	-	99		
	1913	-	3	6	10	10	11	13	19	16	11	6	3	1	-	-	-	109		
	1914	-	3	3	9	7	9	12	15	15	20	11	3	2	2	-	-	111		
	1915	-	7	12	13	13	12	8	9	12	9	5	6	4	-	-	-	110		
	1916	-	-	6	12	11	11	9	10	13	15	13	3	1	1	1	-	106		
	1917	-	4	6	11	3	7	7	14	10	9	7	-	-	1	1	-	80		
	1918	-	2	4	2	9	15	12	11	6	9	6	9	1	-	-	-	86		
	1919	-	3	7	6	13	11	10	8	12	11	7	6	2	2	-	-	98		
	1920	-	2	8	8	12	9	8	16	14	13	5	4	1	-	-	-	100		
	1921	-	-	7	11	10	14	9	10	11	15	8	6	1	2	-	1	105		
	1922	-	3	1	10	9	9	11	10	14	11	6	6	-	-	-	1	91		
Total	-	32	75	118	117	121	117	149	143	147	84	51	19	11	3	2	1,189			



TABLE 30

Commonwealth of Australia - Number of Deaths from All Forms of Tuberculosis Combined according to Occupation 1911-22 - Males.

Occupation	Year	Age Group - Years																	Unspec- ified	Total All Ages
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+				
VII Class of Other Industrial Workers	1911	-	9	30	40	44	31	47	52	32	27	16	15	12	5	2	1	363		
	1912	-	10	35	47	63	48	37	31	48	27	22	12	5	3	-	-	383		
	1913	-	8	31	48	49	38	43	38	46	38	27	23	5	1	-	-	395		
	1914	-	10	34	57	35	34	36	39	42	30	24	17	9	5	2	-	374		
	1915	-	14	33	53	46	47	51	47	40	43	21	14	6	5	1	2	423		
	1916	-	12	42	35	38	46	46	47	53	38	25	22	8	3	1	-	416		
	1917	-	10	30	32	45	52	42	41	44	29	21	18	10	1	-	-	375		
	1918	-	11	28	35	39	40	43	53	38	27	25	10	5	5	1	-	360		
	1919	-	18	32	47	55	62	53	47	37	44	37	17	6	6	2	-	463		
	1920	-	12	27	45	43	52	41	45	38	36	33	13	2	8	3	2	400		
	1921	-	15	35	41	44	58	47	46	36	42	36	19	5	4	2	-	430		
	1922	-	11	34	44	42	42	46	49	43	38	33	14	12	3	2	-	413		
	Total	-	140	391	524	543	550	527	535	497	419	320	194	85	49	16	5	4,795		
VIII Agricultural Class	1911	-	2	9	10	14	18	18	14	15	13	9	10	6	2	2	-	142		
	1912	-	5	5	14	12	16	24	22	21	16	6	6	8	-	1	-	156		
	1913	-	-	7	11	10	20	9	16	14	15	5	7	5	2	-	-	121		
	1914	-	5	4	20	17	20	14	11	17	5	14	5	2	3	1	1	139		
	1915	-	1	11	12	12	21	8	19	14	18	8	4	3	1	-	-	132		
	1916	-	4	7	21	15	18	19	17	12	16	8	7	4	1	-	-	149		
	1917	-	5	8	7	15	19	12	14	16	6	10	6	9	1	2	-	130		
	1918	-	1	6	19	13	15	16	12	14	18	14	8	2	2	3	-	143		
	1919	-	1	9	21	22	23	15	20	9	16	14	8	5	4	1	-	168		
	1920	-	1	5	16	12	16	13	13	17	16	14	7	3	1	2	-	136		
	1921	-	3	10	14	15	12	14	15	19	12	10	12	4	1	-	-	141		
	1922	-	3	7	22	15	9	18	11	13	18	11	6	8	4	-	-	145		
	Total	-	31	88	187	172	207	180	184	181	169	123	86	59	22	12	1	1,702		



TABLE 31

*Commonwealth of Australia - Number of Deaths from All Forms of Tuberculosis Combined according to Occupation 1911-22. Males.*

Occupation	Year	Age Group - Years																	Unspec- ified	Total- All Ages
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+				
13 Pastoral class	1911	-	-	3	4	3	4	5	4	5	3	2	2	-	-	-	-	35		
	1912	-	2	4	11	3	4	7	4	4	4	3	1	1	-	2	-	50		
	1913	-	-	5	13	9	2	5	7	7	4	3	-	1	-	-	-	56		
	1914	-	-	7	7	7	4	4	8	4	2	-	1	1	-	-	-	45		
	1915	-	-	3	6	5	4	6	3	-	3	4	3	3	-	-	-	40		
	1916	-	1	-	5	7	1	4	4	5	5	2	2	-	-	-	-	36		
	1917	-	1	4	1	2	2	4	5	6	1	7	1	-	-	-	-	34		
	1918	-	2	2	6	5	7	6	10	6	1	4	-	-	1	-	-	50		
	1919	-	3	3	6	8	5	1	5	8	2	2	1	-	-	-	-	44		
	1920	-	1	3	5	3	3	9	2	3	1	7	-	1	-	-	-	38		
	1921	-	-	4	6	7	5	3	2	3	2	4	1	1	1	-	-	39		
	1922	-	-	-	3	8	2	4	3	-	3	3	4	-	-	1	-	31		
Total		-	10	38	73	67	43	58	57	51	31	41	16	8	2	3	-	498		
14 class of Workers in mines & Quarries	1911	-	-	1	4	18	24	33	36	31	22	21	11	9	2	-	-	212		
	1912	-	2	10	11	14	23	25	39	24	19	14	11	12	1	-	-	205		
	1913	-	-	4	8	16	19	31	32	42	23	14	9	5	3	2	-	208		
	1914	-	-	3	5	12	23	20	43	30	26	17	16	4	3	1	-	203		
	1915	-	1	2	4	6	18	24	44	37	26	16	10	3	-	2	-	193		
	1916	-	2	1	7	14	22	34	34	27	24	18	9	6	2	2	1	203		
	1917	-	-	2	6	6	23	31	27	26	39	22	12	6	-	1	-	201		
	1918	-	-	6	4	12	20	26	38	34	26	19	8	5	4	1	-	203		
	1919	-	1	2	6	10	26	42	32	44	30	18	13	6	3	1	-	234		
	1920	-	-	2	4	8	16	17	37	36	38	25	4	4	-	-	-	191		
	1921	-	1	1	5	10	19	24	36	41	31	20	15	6	2	2	-	213		
	1922	-	-	-	3	7	13	17	31	30	28	30	11	3	2	1	-	176		
Total		-	7	34	67	133	246	324	429	402	332	234	129	69	22	13	1	2442		

TABLE 32

Commonwealth of Australia - Number of Deaths from All Forms of Tuberculosis Combined according to Occupation 1911-22 Males

Occupation	Year	Age Group - years																Unspec- ified	Total All Ages
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+			
XI class of other Primary Producers	1911	-	-	-	1	1	3	1	1	-	2	-	1	-	-	1	-	11	
	1912	-	-	1	2	-	1	3	2	1	1	-	1	-	-	-	-	12	
	1913	-	-	2	3	-	-	2	-	2	-	-	-	-	-	-	-	9	
	1914	-	1	-	1	3	1	3	-	-	2	-	-	1	-	-	-	12	
	1915	-	-	1	3	1	-	1	-	2	1	2	-	-	-	-	-	11	
	1916	-	1	-	1	2	-	1	1	2	1	4	1	-	-	-	-	14	
	1917	-	1	1	-	1	2	1	2	1	3	-	-	-	-	-	-	12	
	1918	-	-	-	1	1	4	2	-	3	2	2	-	-	-	-	-	15	
	1919	-	-	1	-	2	1	1	1	1	-	1	1	-	-	-	-	9	
	1920	-	-	2	2	2	-	1	3	1	1	-	-	-	-	-	-	12	
	1921	-	-	2	-	-	1	1	2	1	2	1	1	-	-	-	-	11	
	1922	-	1	2	-	2	-	-	3	-	2	-	-	1	-	-	-	11	
	Total	-	4	12	14	15	13	17	15	14	17	10	5	2	-	1	-	139	
XII class with Independent means	1911	-	-	-	4	2	3	4	3	2	-	2	7	2	2	-	-	31	
	1912	-	-	-	1	1	4	1	3	2	1	2	-	5	1	-	-	21	
	1913	-	-	3	-	1	3	5	-	-	-	4	6	-	-	-	-	22	
	1914	-	-	-	1	1	4	1	-	5	1	2	4	1	-	-	-	20	
	1915	-	-	-	-	-	2	1	4	2	-	1	2	1	-	-	-	13	
	1916	-	-	-	1	-	-	1	1	1	1	-	-	2	1	-	-	8	
	1917	-	-	-	-	1	1	-	1	2	2	1	-	-	-	-	-	8	
	1918	-	-	-	-	-	2	1	1	-	1	-	1	1	-	-	-	7	
	1919	-	-	1	2	-	1	1	1	-	-	1	-	1	-	1	-	9	
	1920	-	-	-	1	1	-	-	2	-	-	-	1	2	-	1	-	8	
	1921	-	-	2	1	1	2	2	-	2	3	1	1	1	1	1	-	18	
	1922	-	-	2	3	2	2	4	3	2	2	1	1	1	1	-	-	24	
	Total	-	-	8	14	10	24	21	19	18	11	15	23	17	6	3	-	189	

TABLE 33

Commonwealth of Australia - Number of Deaths from All Forms of Tuberculosis Combined according to Occupation 1911-22 - Males.

		Age Group- years																	
Occupation	Year	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+	Unspecified	Total All Ages	
XIII class of Dependents	1911	197	28	14	5	-	2	6	1	1	2	-	3	-	-	-	-	259	
	1912	169	29	17	10	5	6	3	1	2	1	-	2	-	-	2	-	247	
	1913	187	27	20	5	4	4	2	4	7	1	1	2	-	-	-	1	265	
	1914	181	29	8	7	3	4	-	5	3	2	2	1	-	-	-	-	245	
	1915	139	29	9	3	2	-	2	2	1	4	-	-	-	1	-	-	192	
	1916	158	21	8	9	1	1	1	4	2	-	1	1	2	-	-	-	209	
	1917	154	33	13	10	10	13	2	6	1	1	4	1	1	-	-	-	249	
	1918	145	20	11	5	3	7	1	2	3	4	4	-	-	-	-	-	205	
	1919	172	24	14	2	6	1	-	3	5	3	1	1	-	-	2	-	184	
	1920	188	21	8	4	3	2	1	-	2	1	-	-	-	1	-	-	231	
	1921	143	22	10	1	-	2	2	-	2	-	-	1	1	-	-	-	184	
1922	113	20	19	1	-	-	-	1	-	-	1	-	-	-	-	-	155		
Total		1896	303	151	62	37	42	20	29	29	19	14	12	4	2	4	1	2625	

TABLE 34

Commonwealth of Australia - Central Death Rates from All Forms of Tuberculosis combined according to Occupation 1911-22 & 1911 - Males

Age Group - years	Ratio of Mean Invol. Population 1911-22 to General Population at Census 1911	Population Census 1911	Mean Population 1911-22 = (1) x (2)	Total Deaths 1911-22 (1275)	Central Death Rates 1911-22 per 10 <sup>5</sup>	Death Rates 1911 per 10 <sup>5</sup> (Commonwealth Statistician)	Population Census 1911	Mean Population 1911-22 = (1) x (2)	Total Deaths (1275)	Central Death Rates 1911-22 per 10 <sup>5</sup>	Death Rates 1911 per 10 <sup>5</sup> (Commonwealth Statistician)
		I Professional Class					II Domestic Class				
	(1)	(2)	(3)	(4)	(5)	(6)	(2)	(3)	(4)	(5)	(6)
Under 15	1.12627	1,216	1,370	—	—	—	826	930	—	—	—
15-19	1.02086	7,905	8,070	24	25	38	4,281	4,370	9	17	23
20-24	0.98477	12,237	12,047	206	142	123	5,820	5,731	52	76	86
25-29	1.06946	12,325	13,181	296	187	122	5,692	6,087	103	141	264
30-34	1.17702	10,459	12,310	275	186	201	5,457	6,423	132	171	238
35-39	1.15953	9,923	11,506	237	172	131	5,161	5,984	136	189	155
40-44	1.09458	9,384	10,272	156	127	171	4,937	5,404	129	199	344
45-49	1.04845	8,803	9,229	181	163	136	4,484	4,701	132	235	290
50-54	1.13873	7,050	8,028	110	114	57	3,712	4,227	106	209	162
55-59	1.32672	4,566	6,058	78	107	175	2,581	3,424	90	219	310
60-64	1.40512	3,003	4,220	49	97	67	1,968	2,765	47	142	51
65-69	1.21067	2,072	2,509	29	96	97	1,484	1,797	27	125	—
70-74	1.08038	1,204	1,301	12	77	83	820	886	9	85	—
75-79	1.02373	688	704	6	71	—	427	437	3	57	—
80+	1.08987	468	510	—	—	—	188	205	1	41	—
Unspecified	—	340	—	1	—	—	397	—	3	—	—
Total - All Ages	—	91,638	—	1,660	—	—	48,235	—	979	—	—



TABLE 35

Commonwealth of Australia - Central Death Rates from All Forms of Tuberculosis Combined according to Occupation 1911-22 & 1911-22 males

Age Group Years	Ratio of Mean General Population 1911-22 to General Population at Census 1911	Population Census 1911	Mean Population 1911-22 = (1) x (2)	Total Deaths 1911-22 (12 yrs)	Central Death Rates 1911-22 per 10 <sup>5</sup>	Death Rates 1911 per 10 <sup>5</sup> (Commonwealth Statistician)	Population Census 1911	Mean Population 1911-22 = (1) x (2)	Total Deaths 1911-22 (12 yrs)	Central Death Rates 1911-22 per 10 <sup>5</sup>	Death Rates 1911 per 10 <sup>5</sup> (Commonwealth Statistician)
III Mercantile class							IV class Engaged in Transport & Communication				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Under 15	1.12627	6,789	7,646	—	—	—	1,856	2,090	3	12	54
15-19	1.02086	34,057	34,768	144	35	32	16,429	16,777	65	32	—
20-24	0.98477	33,600	33,088	404	107	113	23,503	23,145	204	73	72
25-29	1.06946	29,190	31,217	516	138	151	22,866	24,454	285	97	127
30-34	1.17707	26,207	30,846	555	150	179	18,768	22,090	287	108	85
35-39	1.15953	22,444	26,024	488	156	134	15,996	18,548	259	116	100
40-44	1.09458	21,120	23,117	395	147	137	14,671	16,059	215	112	143
45-49	1.04845	18,475	19,370	346	149	141	13,834	14,504	199	114	130
50-54	1.13873	14,591	16,615	280	140	151	10,393	11,835	171	120	164
55-59	1.32672	9,360	12,418	203	136	118	6,200	8,226	124	126	194
60-64	1.40517	6,778	9,524	137	120	167	3,437	4,829	82	142	175
65-69	1.21067	5,314	6,434	87	113	75	1,886	2,283	44	161	53
70-74	1.08038	3,637	3,929	38	81	82	976	1,054	22	174	512
75-79	1.02373	2,416	2,473	16	54	83	519	531	12	188	193
80+	1.08987	1,490	1,624	10	51	67	220	240	3	104	—
Unspecified	—	1,031	—	4	—	—	1,000	—	6	—	—
Total All Ages	—	236,499	—	3,623	—	—	152,554	—	1,981	—	—

TABLE 36

Commonwealth of Australia - Central Death Rates from All Forms of Tuberculosis combined according to Occupation 1911-22 & 1911 - Males.

Age Group - Years	Ratio of Mean General Population 1911-22 to General Population at Census 1911	Population Census 1911	Mean Population 1911-22 = (1) x (2)	Total Deaths 1911-22 (12 yrs)	Central Death Rates 1911-22 per 10 <sup>5</sup>	Death Rates 1911 per 10 <sup>5</sup> (Commonwealth Statistician)	Population Census 1911	Mean Population 1911-22 = (1) x (2)	Total Deaths 1911-22 (12 yrs)	Central Death Rates 1911-22 per 10 <sup>5</sup>	Death Rates 1911 per 10 <sup>5</sup> (Commonwealth Statistician)
V. Manufacturing class						VI. Class Engaged in Building Construction					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Under 15	1.12627	7,147	8,049	1	1	-	1,193	1,344	-	-	-
15-19	1.02086	45,309	46,254	108	19	29	11,293	11,529	32	23	27
20-24	0.98477	40,787	40,166	301	62	69	15,495	15,259	75	41	45
25-29	1.06946	34,210	36,586	347	78	88	14,036	15,011	118	66	57
30-34	1.17702	27,826	32,752	351	89	93	10,922	12,855	117	76	110
35-39	1.15953	23,001	26,670	374	117	117	10,204	11,832	121	85	59
40-44	1.09458	20,904	22,881	351	128	177	11,405	12,484	117	78	79
45-49	1.04845	18,609	19,511	276	118	134	11,494	12,051	149	103	131
50-54	1.13873	15,262	17,379	279	134	92	9,540	10,863	143	110	115
55-59	1.32672	9,832	13,044	199	127	173	6,346	8,419	147	146	189
60-64	1.40512	6,107	8,574	124	121	213	3,979	5,591	84	125	126
65-69	1.21067	3,830	4,637	93	167	157	2,391	2,895	51	147	84
70-74	1.08038	2,222	2,401	42	146	45	1,480	1,599	19	99	203
75-79	1.02373	1,166	1,194	14	98	86	836	856	11	107	-
80+	1.08987	693	755	4	44	-	525	572	3	44	190
Unspecified	-	1,088	-	4	-	-	565	-	2	-	-
Total All Ages	-	257,988		2,863	-	-	111,704		1,189	-	-

TABLE 37

Commonwealth of Australia - Central Death Rates from All Forms of Tuberculosis combined according to Occupation 1911-22 & 1911 - Males.

Age Group - Years	Ratio of Mean General Population 1911-22 to General Population at Census 1911	Population 1911	Mean Population 1911-22 = (1) x (2)	Total Deaths 1911-22 (12 yrs)	Central Death Rates 1911-22 per 10 <sup>5</sup>	Death Rates 1911 per 10 <sup>5</sup> (Commonwealth Statistician)	Population 1911	Mean Population 1911-22 = (1) x (2)	Total Deaths 1911-22 (12 yrs)	Central Death Rates 1911-22 per 10 <sup>5</sup>	Death Rates 1911 per 10 <sup>5</sup> (Commonwealth Statistician)
		VII. Class of Other Industrial Workers					VIII. Agricultural Class				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Under 15	1.12629	1,153	1,299	—	—	—	1,629	8,597	—	—	—
15-19	1.02086	9,214	9,406	140	124	98	38,393	39,194	31	7	5
20-24	0.98477	11,646	11,469	391	284	258	38,391	37,806	88	19	23
25-29	1.06946	10,110	10,817	524	404	396	31,517	33,706	187	46	32
30-34	1.17707	8,495	9,999	543	453	518	27,719	32,626	177	44	51
35-39	1.15953	7,648	8,868	550	517	405	25,338	29,380	207	59	71
40-44	1.09458	7,281	7,970	527	551	646	24,325	26,626	180	56	74
45-49	1.04845	7,176	7,524	535	593	725	22,151	23,224	184	66	63
50-54	1.13873	6,083	6,927	497	598	526	18,477	21,035	181	77	81
55-59	1.32677	4,293	5,696	419	613	629	12,895	17,108	169	87	101
60-64	1.40517	3,377	4,738	320	563	474	9,843	13,831	123	74	91
65-69	1.21067	2,893	3,507	194	467	518	7,954	9,630	86	74	126
70-74	1.08038	1,999	2,160	85	328	600	5,521	5,965	59	87	109
75-79	1.02373	1,123	1,150	49	355	445	3,307	3,385	27	54	60
80 +	1.08987	631	688	16	194	317	1,949	2,124	17	47	103
Unspecified	—	934	—	5	—	—	1,828	—	1	—	—
Total - All Ages	—	84,051	—	4,795	—	—	277,232	—	1,707	—	—

TABLE 38

Commonwealth of Australia - Central Death Rates from All Forms of Tuberculosis combined according to Occupation 1911-22 & 1911 - Males.

Age Group - Years	Ratio of Mean General Population 1911-22 to General Population at Census 1911	Population Census 1911	Mean Population 1911-22 = (1) x (2)	Total Deaths 1911-22 (1912)	Central Death Rates 1911-22 per 10 <sup>5</sup>	Death Rates 1911 per 10 <sup>5</sup> (Commonwealth Statistician)	Population Census 1911	Mean Population 1911-22 = (1) x (2)	Total Deaths 1911-22 (1912)	Central Death Rates 1911-22 per 10 <sup>5</sup>	Death Rates 1911 per 10 <sup>5</sup> (Commonwealth Statistician)
		TX Pastoral classes					X class of Workers in Mines & Quarries				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Under 15	1.12627	3,646	4,106	-	-	-	869	979	-	-	-
15-19	1.02086	18,061	18,438	10	5	-	8,397	8,572	7	7	-
20-24	0.98477	19,460	19,164	38	17	15	12,490	12,300	34	23	8
25-29	1.06946	16,254	17,383	73	35	25	13,630	14,577	67	38	29
30-34	1.17702	14,428	16,982	67	33	21	13,082	15,398	133	72	138
35-39	1.15953	13,579	15,676	43	23	30	12,205	14,152	246	145	197
40-44	1.09458	13,470	14,744	58	33	37	11,262	12,327	324	219	293
45-49	1.04845	12,603	13,214	57	36	32	9,913	10,393	429	344	363
50-54	1.13873	10,470	11,922	51	36	48	7,989	9,097	402	368	388
55-59	1.32672	7,207	9,562	31	27	42	5,239	6,951	332	398	420
60-64	1.40512	5,469	7,685	41	44	37	3,632	5,103	234	382	578
65-69	1.21067	3,939	4,769	16	28	51	2,712	3,283	129	327	406
70-74	1.08038	2,307	2,492	8	27	-	1,929	2,084	69	276	467
75-79	1.02373	1,200	1,228	2	14	-	1,196	1,224	22	150	167
80+	1.08987	597	651	3	38	-	618	674	13	161	-
Unspecified	-	961	-	-	-	-	563	-	1	-	-
Total All Ages		143,591		498	-	-	105,726		2,432		



TABLE 39

Commonwealth of Australia - Central Death Rates from All Forms of Tuberculosis Combined according to Occupation 1911-22 & 1911 - Males.

Age Group - Years	Ratio of Mean Central Population 1911-22 to General Population at Census 1911	Population Census 1911	Mean Population 1911-22 = (1) x (2)	Total Deaths 1911-22 (12 yrs)	Central Death Rates 1911-22 per 10 <sup>5</sup>	Death Rates 1911 per 10 <sup>5</sup> (Commonwealth Statistician)	Population Census 1911	Mean Population 1911-22 = (1) x (2)	Total Deaths 1911-22 (12 yrs)	Central Death Rates 1911-22 per 10 <sup>5</sup>	Death Rates 1911 per 10 <sup>5</sup> (Commonwealth Statistician)
		XI. Class of other Primary Producers					XII. Class with Independent Means				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Under 15	1.12677	555	625	-	-	-	-	-	-	-	-
15-19	1.02086	4,490	4,584	4	7	-	24	27	-	-	-
20-24	0.98477	7,227	7,117	12	14	-	117	119	8	560	-
25-29	1.06946	6,855	7,331	14	16	15	129	127	14	919	3,101
30-34	1.17702	5,490	6,462	15	19	18	175	187	10	446	1,143
35-39	1.15953	4,539	5,263	13	21	66	179	211	24	948	1,676
40-44	1.09458	4,053	4,436	17	32	25	234	271	21	646	1,709
45-49	1.04845	3,604	3,779	15	33	28	290	317	19	499	1,034
50-54	1.13873	2,697	3,071	14	38	-	377	395	18	380	531
55-59	1.32672	1,658	2,200	17	64	121	512	583	11	157	-
60-64	1.40512	1,066	1,498	10	56	-	950	1,260	15	99	211
65-69	1.21067	574	695	5	60	174	2,494	3,504	23	55	281
70-74	1.08038	268	290	2	57	-	3,404	4,121	17	34	59
75-79	1.02373	110	113	-	-	-	2,874	3,105	6	16	70
80+	1.08987	40	44	1	189	193	2,083	2,132	3	12	-
Unspecified	-	493	-	-	-	-	97	-	-	-	-
Total - All Ages		43,719		139	-	-	13,939		189	-	-

TABLE 40

Commonwealth of Australia - Central Death Rates from All Forms of Tuberculosis combined according to Occupation 1911-27 & 1911 - Males.

Age Group - Years	Ratio of Mean General Population 1911-27 to General Population at Census 1911	Population Census 1911	Mean Population 1911-27 = (1) x (2)	Total Deaths 1911-27 (12 yrs)	Central Death Rates 1911-27 per 10 <sup>5</sup>	Death Rates 1911 per 10 <sup>5</sup> (Commonwealth Statistician)
<u>XIII</u> Class of Dependents						
	(1)	(2)	(3)	(4)	(5)	(6)
Under 18	1.12627	678,043	763,656	1,896	21	29
18-19	1.02086	20,775	21,208	303	119	135
20-24	0.98477	2,273	2,238	151	562	616
25-29	1.06946	553	591	62	874	904
30-34	1.17702	382	450	37	685	—
35-39	1.15953	350	406	42	862	571
40-44	1.09458	384	420	20	397	1,563
45-49	1.04845	352	369	29	655	284
50-54	1.13873	294	335	29	721	340
55-59	1.32672	249	330	19	480	803
60-64	1.40512	299	420	14	278	—
65-69	1.21067	269	326	12	307	1,115
70-74	1.08038	298	322	4	104	—
75-79	1.02373	291	298	2	56	—
80+	1.08987	307	335	4	100	—
Unspecified	—	1,654	—	1	—	—
Total - All Ages		706,773		2,625	—	—

TABLE 41

Commonwealth of Australia - Number of Deaths from All Forms of Tuberculosis  
combined according to length of Residence in Australia 1909-22.  
Males - Born in Australia

Year	Age Group - years																	Unspec- ified	Total - All Ages
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+		
1909	127	34	34	90	134	173	135	170	131	126	67	34	27	10	1	1	-	1	1,295
1910	134	32	32	90	138	167	144	147	118	131	87	34	18	8	4	1	1	-	1,286
1911	121	30	44	69	142	164	163	132	165	114	88	57	21	14	3	1	1	2	1,331
1912	118	28	17	78	152	179	159	156	129	130	90	56	21	10	4	-	2	-	1,329
1913	130	20	22	67	138	169	168	144	135	113	108	66	21	18	6	-	-	4	1,329
1914	117	29	32	69	146	157	149	159	141	127	117	74	37	16	9	1	1	3	1,384
1915	87	31	12	71	152	151	136	151	131	133	89	77	30	15	10	-	1	3	1,280
1916	108	20	28	66	150	175	147	156	157	146	114	90	35	26	5	3	-	-	1,426
1917	103	27	23	68	132	135	160	159	138	139	112	72	42	17	4	2	-	-	1,333
1918	98	27	16	53	135	161	166	182	140	142	103	84	58	13	7	7	1	1	1,394
1919	87	18	17	79	161	208	211	215	167	158	139	100	60	20	8	3	1	-	1,652
1920	107	45	32	61	137	194	182	166	149	153	127	94	53	20	3	5	1	1	1,530
1921	89	29	21	70	155	195	187	188	166	151	118	88	63	21	5	6	-	1	1,553
1922	60	27	22	66	133	194	154	148	150	156	126	95	73	26	9	6	1	1	1,447
Total 1911-22	1,225	331	286	817	1,133	2,082	1,982	1,956	1,768	1,662	1,331	953	514	216	73	34	9	16	16,988
Total A	375	91	98	240	428	508	460	438	413	374	260	141	62	32	10	2	4	2	3,938
Total B	263	98	73	201	432	586	538	519	469	460	375	278	186	66	17	17	1	2	4,581

TABLE 42

Commonwealth of Australia - Number of Deaths from All Forms of Tuberculosis  
combined according to length of residence in Australia 1909-22.  
Females - Born in Australia.

Year	Age Group- years																		Unspec- ified	Total- All Ages
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+			
1909	104	30	38	153	239	226	166	162	97	77	41	17	14	7	4	-	-	1	1,376	
1910	104	21	40	148	212	246	158	140	105	83	36	32	11	12	3	1	-	1	1,353	
1911	107	31	41	142	251	234	181	141	108	75	28	23	20	11	5	1	-	-	1,399	
1912	104	33	45	136	250	202	156	127	103	80	47	24	13	8	4	1	-	-	1,333	
1913	118	23	37	151	222	242	160	128	106	66	38	31	12	7	6	1	-	-	1,348	
1914	74	27	19	110	205	213	140	138	103	65	40	36	11	11	4	1	-	1	1,198	
1915	102	23	29	107	207	218	173	103	89	78	56	33	14	12	5	3	1	-	1,253	
1916	96	20	40	125	216	233	149	125	95	91	45	45	17	14	4	3	1	-	1,319	
1917	75	27	29	94	175	204	168	141	88	69	40	38	23	8	2	2	2	1	1,186	
1918	87	29	28	108	210	209	161	137	114	66	62	41	28	9	5	2	-	-	1,296	
1919	71	27	30	117	201	239	173	156	108	84	57	38	19	12	6	3	1	-	1,342	
1920	68	31	33	97	185	195	160	137	109	74	57	47	32	12	3	-	-	1	1,241	
1921	75	28	23	95	179	222	170	139	114	85	55	42	27	20	4	2	4	-	1,284	
1922	68	21	23	101	190	184	179	135	97	66	48	45	16	18	8	4	1	-	1,204	
Total- 1911-22	1,045	320	377	1,383	2,491	2,595	1,970	1,607	1,234	899	573	443	232	142	56	23	10	3	15,403	
Total A	315	84	125	430	711	689	498	416	314	237	109	77	45	31	12	2	0	1	4,096	
Total B	212	82	80	297	557	615	507	416	323	230	162	133	76	48	14	6	4	1	3,763	



TABLE 43

Commonwealth of Australia - Number of Deaths from All Forms of Tuberculosis combined according to length of Residence in Australia 1909-22.  
Males - Born outside Australia, but Resident 20 Years or over in Australia

Year	Age-Group : years																	Unspec- ified	Total - All Ages
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+		
1909	-	-	-	-	2	13	17	16	53	60	67	75	68	56	37	15	3	1	483
1910	-	-	-	-	2	10	12	9	39	72	75	62	53	34	25	15	4	-	412
1911	-	-	-	-	1	9	10	17	48	79	59	62	58	41	33	13	6	-	436
1912	-	-	-	-	2	6	13	18	34	66	64	57	55	31	29	11	3	-	383
1913	-	-	-	-	1	5	16	19	38	41	84	63	50	46	22	10	3	-	398
1914	-	-	-	-	1	6	8	19	20	41	66	57	55	43	16	13	4	1	350
1915	-	-	-	-	-	4	12	19	23	46	69	55	49	44	16	11	5	-	353
1916	-	-	-	-	1	1	11	22	18	36	63	58	49	45	24	9	4	-	341
1917	-	-	-	-	1	5	7	17	23	35	40	59	51	41	24	3	8	-	314
1918	-	-	-	-	2	-	11	16	16	46	50	47	38	42	14	10	5	-	297
1919	-	-	-	-	-	2	9	10	26	33	50	62	49	40	21	11	3	1	317
1920	-	-	-	-	-	-	6	8	23	36	41	53	67	24	14	8	8	1	289
1921	-	-	-	-	1	1	3	10	18	37	38	59	40	47	25	11	5	-	295
1922	-	-	-	-	-	-	6	9	13	25	37	53	53	37	17	7	3	1	261
Total 1911-22	-	-	-	-	10	39	112	184	300	521	661	679	614	481	255	117	57	4	4,034
Total A	-	-	-	-	5	27	36	43	126	216	191	181	169	112	89	40	13	-	1,256
Total B	-	-	-	-	1	2	15	27	58	100	119	168	158	109	57	27	16	2	859

TABLE 44

Commonwealth of Australia - Number of Deaths from All Forms of Tuberculosis combined according to Length of Residence in Australia 1909-22.  
 Females - born outside Australia, but Resident 20 years & over in Australia.

Year	Age Group- Years																	Unspec- ified	Total - All Ages
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+		
1909	-	-	-	-	1	12	14	9	14	18	11	15	32	27	13	6	3	-	175
1910	-	-	-	-	4	12	12	15	18	14	21	19	21	14	10	7	3	-	170
1911	-	-	-	-	-	9	12	15	21	18	16	21	19	19	11	5	3	-	169
1912	-	-	-	-	2	6	4	13	7	19	17	16	20	21	11	4	4	-	144
1913	-	-	-	-	-	6	16	12	17	22	29	19	22	23	14	4	3	-	187
1914	-	-	-	-	-	7	7	10	8	11	20	14	22	18	6	9	1	-	133
1915	-	-	-	-	1	5	11	17	19	18	17	5	11	13	13	5	3	-	138
1916	-	-	-	-	-	4	7	14	18	15	13	17	12	10	5	7	4	-	126
1917	-	-	-	-	1	1	9	10	6	12	12	10	11	9	4	4	5	-	94
1918	-	-	-	-	-	-	2	13	17	15	18	13	15	5	11	7	2	-	118
1919	-	-	-	-	2	-	5	13	14	12	7	15	15	13	11	3	2	-	112
1920	-	-	-	-	1	-	2	6	6	9	14	13	12	11	7	2	1	-	84
1921	-	-	-	-	1	1	2	7	12	7	10	19	12	11	5	3	2	-	92
1922	-	-	-	-	1	4	7	3	7	9	14	14	9	9	4	7	1	-	89
Total 1911-22	-	-	-	-	9	43	84	133	152	167	187	176	180	162	102	60	31	-	1,486
Total A	-	-	-	-	5	29	31	42	47	51	53	56	63	56	32	16	10	-	491
Total B	-	-	-	-	4	4	10	18	26	26	36	47	35	32	18	11	4	-	271

TABLE 45

Commonwealth of Australia - Number of Deaths from All Forms of Tuberculosis  
Combined according to length of Residence in Australia 1909-22.

Males - Born Outside Australia, but Resident 15-19 years in Australia

Year	Age Group- Years																		Unspec- ified	Total- All Ages
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+			
1909	-	-	-	-	-	3	3	6	7	11	3	2	1	1	-	-	-	-	37	
1910	-	-	-	-	-	-	4	9	8	5	3	-	1	-	-	-	-	-	30	
1911	-	-	-	-	-	2	3	3	8	7	1	3	1	-	2	-	-	-	30	
1912	-	-	-	-	-	1	3	3	7	12	12	8	6	5	4	-	-	-	61	
1913	-	-	-	1	1	1	4	6	6	7	5	3	1	-	-	-	-	-	35	
1914	-	-	-	-	-	1	2	6	4	4	5	2	1	-	-	-	-	-	25	
1915	-	-	-	2	-	1	2	8	9	1	3	2	2	3	-	-	-	-	33	
1916	-	-	-	-	2	-	4	9	6	7	3	-	-	-	-	-	-	-	31	
1917	-	-	-	-	-	-	3	9	9	2	3	2	-	-	1	-	-	-	29	
1918	-	-	-	-	-	-	3	2	4	1	3	-	2	-	1	-	-	-	16	
1919	-	-	-	-	1	-	-	9	3	11	2	1	2	1	1	-	-	-	31	
1920	-	-	-	1	1	-	2	7	5	4	1	-	1	-	-	-	-	-	22	
1921	-	-	-	-	-	-	-	1	6	4	-	5	2	1	-	-	-	-	19	
1922	-	-	-	-	-	-	2	6	8	6	2	2	-	2	-	-	-	-	28	
Total 1911-22	-	-	-	4	5	6	28	69	75	66	40	28	18	12	9	-	-	-	360	
Total A	-	-	-	-	-	4	10	15	23	24	14	9	7	4	5	-	-	-	115	
Total B	-	-	-	1	1	-	3	15	18	15	4	7	4	2	-	-	-	-	70	

72.32

TABLE 46

Commonwealth of Australia—Number of Deaths from All Forms of Tuberculosis  
 combined according to length of Residence in Australia 1909-22.

Females—Born outside Australia, but Resident 15-19 years in Australia.

Year	Age Group—Years																	Unspec- ified	Total— All Ages
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+		
1909	-	-	-	-	2	1	2	4	5	4	-	1	1	-	-	-	-	-	20
1910	-	-	-	1	-	-	-	3	3	1	1	-	-	-	-	-	-	-	9
1911	-	-	-	1	1	1	1	2	2	1	-	-	1	-	-	-	-	-	10
1912	-	-	-	-	1	-	2	4	-	3	1	-	-	-	1	-	-	-	12
1913	-	-	-	-	-	1	1	1	2	5	1	1	-	-	-	-	-	-	12
1914	-	-	-	-	-	1	-	1	2	1	1	-	-	-	-	-	-	-	6
1915	-	-	-	1	2	1	3	4	3	1	-	-	-	-	-	-	-	-	15
1916	-	-	-	-	2	-	-	5	2	1	1	-	-	-	-	-	-	-	11
1917	-	-	-	-	4	-	1	1	2	-	1	-	-	-	-	-	-	-	9
1918	-	-	-	1	-	-	1	3	-	-	-	-	-	-	-	-	-	-	5
1919	-	-	-	-	-	3	2	3	-	1	-	-	-	1	-	-	-	-	10
1920	-	-	-	-	1	2	1	2	-	2	1	-	1	-	-	-	-	-	10
1921	-	-	-	-	-	1	1	2	2	1	1	-	-	-	-	-	-	-	8
1922	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
Total 1911-22	-	-	-	3	11	10	13	28	15	17	7	1	2	1	1	-	-	-	109
Total A	-	-	-	2	3	1	3	9	6	5	2	-	1	-	1	-	-	-	33
Total B	-	-	-	-	1	4	3	5	2	4	2	-	1	-	-	-	-	-	22



TABLE 47

Commonwealth of Australia - Number of Deaths from All Forms of Tuberculosis combined according to length of Residence in Australia 1909-22.

Males - Born outside Australia but Resident 10-14 years in Australia.

Year	Age-Group:      years																		Unspec- ified	Total- All Ages
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+			
1909	-	-	-	-	-	4	3	7	4	5	4	2	1	-	-	-	-	-	30	
1910	-	-	-	-	1	-	6	8	2	3	4	5	-	-	-	-	-	-	29	
1911	-	-	-	-	-	1	3	8	4	3	2	2	1	-	1	-	-	-	25	
1912	-	-	-	-	1	4	5	13	5	3	4	1	-	-	-	-	-	-	36	
1913	-	-	-	-	-	1	3	10	4	6	2	1	1	-	1	-	-	-	29	
1914	-	-	-	-	-	3	3	10	9	5	1	1	1	-	-	-	-	-	33	
1915	-	-	-	-	2	-	7	6	4	2	4	-	1	1	-	-	-	-	27	
1916	-	-	-	-	-	1	6	6	1	4	3	1	1	-	-	-	-	-	23	
1917	-	-	-	-	1	3	6	8	7	4	4	2	2	1	-	-	-	-	38	
1918	-	-	-	-	-	3	5	6	3	3	1	2	-	1	-	-	-	-	24	
1919	-	-	-	-	1	4	7	13	15	4	3	2	1	-	1	-	-	-	51	
1920	-	-	-	-	-	2	9	17	13	7	1	5	1	1	-	-	-	-	56	
1921	-	-	-	-	1	9	17	17	9	11	5	2	3	1	2	-	-	-	77	
1922	-	-	1	2	7	8	20	21	11	7	7	1	3	1	-	-	-	-	89	
Total 1911-22	-	-	1	2	13	39	91	135	85	59	37	20	15	6	5	-	-	-	508	
Total A	-	-	-	-	2	5	14	28	11	9	10	8	1	-	1	-	-	-	89	
Total B	-	-	1	2	6	18	43	53	34	24	12	9	6	3	2	-	-	-	213	

TABLE 48

Commonwealth of Australia - Number of Deaths from All Forms of Tuberculosis combined according to length of Residence in Australia 1909-22  
 Females - born Outside Australia but Resident 10-14 years in Australia.

Year	Age Group- Years																		Unspec- ified	Total- All Ages
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+			
1909	-	-	-	-	1	1	7	2	1	1	1	-	-	-	-	-	-	-	14	
1910	-	-	-	-	-	4	3	2	1	-	-	-	-	-	-	-	-	-	10	
1911	-	-	-	1	-	1	2	5	1	-	1	2	-	-	-	-	-	-	13	
1912	-	-	-	1	-	1	3	1	-	1	-	-	-	-	-	-	-	-	7	
1913	-	-	-	1	1	2	1	1	2	1	1	-	2	-	-	-	-	-	12	
1914	-	-	-	-	1	-	2	-	1	2	-	1	-	-	-	-	-	-	7	
1915	-	-	-	-	1	1	2	-	1	-	-	2	-	-	-	-	-	-	7	
1916	-	-	-	-	-	2	2	1	-	-	1	-	-	1	-	-	-	-	7	
1917	-	-	-	-	-	3	2	-	-	-	1	1	-	-	-	-	-	-	7	
1918	-	-	-	-	-	1	1	3	2	1	1	1	1	-	-	-	-	-	11	
1919	-	-	-	-	2	4	3	6	-	2	2	1	1	1	-	-	-	-	22	
1920	-	-	-	1	1	3	1	4	3	2	-	1	-	-	-	-	-	-	16	
1921	-	-	1	3	3	1	5	8	7	1	2	1	1	-	-	1	-	-	34	
1922	-	-	-	-	5	7	6	4	5	2	1	1	2	1	-	-	-	-	34	
Total 1911-22	-	-	1	7	14	26	30	33	22	12	10	11	7	3	-	1	-	-	177	
Total A	-	-	-	2	-	6	9	9	3	-	1	2	-	-	-	-	-	-	32	
Total B	-	-	1	4	8	10	11	17	14	6	4	3	2	1	-	1	-	-	82	

TABLE 49

Commonwealth of Australia - Number of Deaths from All Forms of Tuberculosis combined according to length of residence in Australia 1909-22.

Males - Born Outside Australia but Resident 5-9 years in Australia

Year	Age Group — years																		Unspec- ified	Total — All Ages
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+			
1909	-	-	-	-	-	3	6	8	4	1	2	1	1	-	-	-	-	-	26	
1910	-	-	-	-	-	8	7	9	8	3	3	1	-	-	-	-	-	-	39	
1911	-	-	-	-	3	6	7	3	4	-	-	-	-	-	-	-	-	-	23	
1912	-	-	-	1	3	3	9	10	5	2	4	2	-	1	-	-	-	-	40	
1913	-	-	-	-	2	7	6	6	8	3	1	3	2	1	-	-	-	-	39	
1914	-	-	-	-	2	14	13	10	9	2	1	-	-	-	-	-	-	-	51	
1915	-	1	1	-	1	9	15	18	8	3	5	3	-	1	-	-	-	-	65	
1916	-	-	-	-	4	10	17	19	7	2	1	4	-	-	1	-	-	-	65	
1917	-	-	-	3	5	17	27	15	11	10	2	5	1	-	-	-	-	-	96	
1918	-	-	-	3	7	17	20	27	16	9	4	1	1	1	-	-	-	-	106	
1919	-	-	-	3	5	24	31	16	17	11	-	2	2	-	1	-	-	1	108	
1920	-	1	-	3	3	13	22	21	14	6	6	2	-	-	1	-	-	1	93	
1921	-	1	2	-	6	15	15	11	12	6	4	3	3	2	-	-	-	1	81	
1922	-	-	-	1	3	6	12	8	7	8	4	1	1	-	-	-	-	-	51	
Total 1911-22	-	3	3	14	44	141	194	164	113	67	32	26	10	6	3	-	-	3	818	
Total A	-	-	-	1	5	17	23	21	17	5	7	2	-	1	-	-	-	-	99	
Total B	-	2	2	5	12	38	54	42	34	21	13	7	4	2	1	-	-	2	239	

# TABLE 50

Commonwealth of Australia - Number of Deaths from All Forms of Tuberculosis combined according to length of Residence in Australia 1909-22.

Females - Born outside Australia but Resident 5-9 years in Australia.

year	Age Group- years																		Unspec- ified	Total- All Ages.
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+			
1909	-	-	-	-	-	5	1	2	-	-	-	-	1	-	-	-	1	-	10	
1910	-	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	4	
1911	-	-	-	-	2	2	3	5	-	1	-	-	-	1	-	-	-	-	14	
1912	-	-	1	-	3	4	2	3	-	1	-	-	-	1	-	-	-	-	15	
1913	-	-	-	-	2	-	3	1	1	-	-	-	1	-	-	-	-	-	8	
1914	-	-	1	-	1	2	1	2	1	-	2	1	-	-	-	-	-	-	11	
1915	-	-	-	2	1	5	4	4	2	-	-	-	-	-	1	-	-	-	19	
1916	-	-	-	2	5	10	11	2	2	2	1	-	-	-	-	-	-	-	35	
1917	-	2	1	1	2	7	9	4	4	2	1	1	-	-	-	-	-	-	34	
1918	-	-	1	2	1	8	7	4	10	7	3	-	-	-	-	-	-	-	43	
1919	-	1	1	3	13	12	14	10	7	8	1	1	1	-	-	-	-	-	72	
1920	-	-	2	3	4	7	13	7	4	2	-	-	2	-	1	-	-	-	45	
1921	-	-	-	1	5	12	12	9	1	2	1	1	-	-	1	1	-	-	46	
1922	-	-	-	-	2	3	2	2	2	1	1	1	-	-	-	-	-	-	14	
Total 1911-22	-	3	7	14	41	72	81	53	34	26	10	5	4	2	3	1	-	-	356	
Total A	-	-	1	-	4	7	6	9	1	2	-	-	-	2	-	-	-	-	32	
Total B	-	-	2	5	13	24	31	21	8	7	2	2	2	-	2	1	-	-	120	



TABLE 51

Commonwealth of Australia - Number of Deaths from All Forms of Tuberculosis combined according to length of residence in Australia 1909-22.

Males - Born outside Australia, but resident 0-4 years in Australia.

Year	Age-Group - Years																		Unspec- ified	Total All Ages
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+			
1909	3	-	-	3	16	19	12	5	6	6	2	1	-	-	-	-	-	1	74	
1910	3	1	-	1	14	15	21	12	2	8	4	3	-	-	-	-	-	-	84	
1911	2	-	-	1	19	30	20	11	4	2	3	-	-	-	-	-	-	1	93	
1912	4	1	1	6	15	39	26	15	6	6	2	2	1	1	-	-	-	-	125	
1913	6	5	3	6	35	31	37	22	14	6	6	1	-	-	1	-	-	-	173	
1914	3	-	-	5	17	38	43	25	12	10	4	-	2	-	2	-	-	-	161	
1915	2	4	1	4	17	42	26	17	13	5	7	2	3	-	1	-	-	1	145	
1916	1	1	1	6	16	37	17	21	14	8	2	1	1	-	-	-	-	-	126	
1917	1	-	-	2	16	11	16	8	2	6	4	-	-	-	-	-	-	-	66	
1918	1	1	2	-	10	18	14	15	10	6	3	1	-	1	-	-	-	-	82	
1919	-	1	-	1	9	7	13	7	3	3	3	-	-	1	-	-	-	-	48	
1920	3	-	-	2	4	12	6	5	4	3	3	1	-	1	-	-	-	-	44	
1921	1	-	-	2	6	3	5	6	7	-	2	1	2	-	-	-	-	-	35	
1922	2	-	-	2	6	11	9	6	2	3	3	3	1	2	-	-	-	-	50	
Total 1911-22	26	13	8	37	170	279	232	158	91	58	42	12	10	6	4	-	-	2	1,148	
Total A	9	2	1	7	48	79	64	35	13	15	10	4	1	1	-	-	-	1	290	
Total B	5	-	-	6	17	25	21	18	14	6	8	4	3	2	-	-	-	-	129	



# TABLE 53

Commonwealth of Australia - Calculation of Central Death Rates from All Forms of Tuberculosis combined according to length of residence in Australia 1911-22, 1909-12 & 1919-22.  
Males - Born in Australia

Age Group - Years	Total Deaths 1911-22 (12 yrs)	Total Deaths A 1909-12 (3 yrs)	Total Deaths B 1919-22 (3 yrs)	Population at census 1911	Population at census 1921	Population at census 1911 per 10 <sup>6</sup>	Population at census 1921 per 10 <sup>6</sup>	(7)-(6)	(8) x .595	(6) + (9)	Mean Population 1911-22	Central Death Rate 1911-22 per 10 <sup>5</sup>	Central Death Rate A 1909-12 per 10 <sup>5</sup>	Central Death Rate B 1919-22 per 10 <sup>5</sup>	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
0-4	1,225	375	263	263,352	301,348	143,122	132,519	-10,603	-6,097	137,025	284,119	36	47	29	
5-9	331	91	98	223,881	294,511	121,671	129,517	+7,846	+4,508	126,179	262,237	11	14	11	
10-14	286	98	73	210,666	250,473	114,489	110,146	-4,343	-2,497	111,992	232,753	10	16	10	
15-19	817	240	201	217,719	216,241	118,322	95,093	-23,229	-13,357	104,965	218,148	31	37	31	
20-24	1,733	428	432	202,317	198,693	109,952	87,376	-22,576	-12,981	96,971	201,524	72	71	72	
25-29	2,082	508	586	162,859	193,580	88,508	85,127	-3,381	-1,944	86,564	179,906	96	104	101	
30-34	1,982	460	538	132,236	182,876	71,865	80,420	+8,555	+4,919	76,784	159,580	104	116	98	
35-39	1,956	438	519	113,650	148,903	61,765	65,481	+3,716	+2,137	63,902	132,807	123	128	116	
40-44	1,768	413	469	101,704	123,908	55,272	54,489	-783	-450	54,822	113,937	129	135	126	
45-49	1,662	374	460	82,586	103,375	44,883	45,460	+577	+332	45,215	93,970	147	151	148	
50-54	1,331	260	375	59,662	93,281	32,424	41,021	+8,597	+4,943	37,367	77,660	143	145	134	
55-59	953	141	278	30,284	71,649	16,458	31,508	+15,050	+8,654	25,112	52,190	152	155	129	
60-64	514	62	186	15,924	50,225	8,654	22,087	+13,433	+7,224	16,378	34,038	126	130	123	
65-69	216	32	66	10,288	23,368	5,591	10,276	+4,685	+2,694	8,285	17,219	105	104	94	
70-74	73	10	17	3,693	10,525	2,007	4,628	+2,621	+1,507	3,514	7,303	83	90	54	
75-79	34	2	17	1,362	5,220	740	2,296	+1,556	+895	1,635	3,398	83	49	109	
80+	9	4	1	600	1,696	326	746	+420	+241	567	1,178	64	222	20	
Unspecified	16	2	2	7,270	4,127	3,951	1,815	-2,136	-1,228	2,723	5,659	-	-	-	
Total All Ages	16,988	3,938	4,581	1,849,053	2,273,999	1,000,000	1,000,000	-67,051	-38,554	+67,051	+38,554	1,000,000	207,826	-	-



# TABLE 54

Commonwealth of Australia - calculation of central Death Rates from All Forms of Tuberculosis combined according to length of Residence in Australia 1911-22, 1909-12 & 1919-22  
Females - Born in Australia.

Age Group Years	Total Deaths 1911-22 (12 yrs)	Total Deaths A 1909-12 (3 yrs)	Total Deaths B 1919-22 (3 yrs)	Population at Census 1911	Population at Census 1921	Population at Census 1931	Census at Census 1921 per 106	(7)-(8)	(8)x.545	(6)+(9)	Mean Population 1911-22	Central Death Rates 1911-22 per 105	Central Death Rates A 1909-12 per 105	Central Death Rates B 1919-22 per 105
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
0-4	1,045	315	212	254,383	290,653	139,188	125,951	-13,237	-7,611	131,577	274,983	32	41	24
5-9	320	84	82	218,755	287,339	119,421	124,515	+5,094	+2,929	127,350	255,699	10	13	10
10-14	397	125	80	207,436	244,433	113,501	105,922	-7,579	-4,358	109,143	228,098	14	20	11
15-19	1,383	430	297	216,341	212,663	118,373	92,155	-26,218	-15,075	103,298	215,883	53	66	47
20-24	2,491	711	557	206,969	211,690	113,245	91,733	-21,512	-12,369	100,876	210,821	98	115	88
25-29	2,595	689	615	167,850	212,501	91,841	92,085	+244	+140	91,981	192,231	112	137	96
30-34	1,970	498	507	135,555	193,124	74,170	83,688	+9,518	+5,473	79,643	166,446	99	122	88
35-39	1,607	416	416	114,560	155,856	62,683	67,538	+4,855	+2,792	65,475	136,836	98	121	89
40-44	1,234	314	323	98,926	128,058	54,128	55,493	+1,365	+785	54,913	114,763	90	106	84
45-49	899	237	230	79,832	105,859	43,681	45,873	+2,192	+1,260	44,941	93,922	80	99	72
50-54	573	109	162	57,582	92,304	31,507	39,999	+8,492	+4,883	36,390	76,051	63	63	59
55-59	443	77	133	29,306	71,722	16,035	31,080	+15,045	+8,651	24,686	57,591	72	88	62
60-64	232	45	76	15,906	52,709	8,403	22,841	+14,138	+8,129	16,832	35,177	55	94	48
65-69	142	31	48	10,757	24,836	5,886	10,763	+4,877	+2,804	8,690	18,161	65	96	64
70-74	56	12	14	3,943	11,319	2,174	4,905	+2,731	+1,570	3,744	7,825	60	101	41
75-79	23	2	6	1,489	6,310	815	2,734	+1,919	+1,104	1,919	4,011	48	45	32
80+	10	0	4	660	2,211	361	958	+597	+343	704	1,471	57	-	60
Unspecified	3	1	1	7,837	4,077	4,288	1,767	-2,521	-1,450	2,838	5,931	-	-	-
Total All Ages	15,403	4,096	3,763	1,827,617	2,307,664	1,000,000	1,000,000	-71,067	-40,863	1,000,000	2,089,900	-	-	-
								+71,067	+40,863					



# TABLE 55

Commonwealth of Australia - Calculation of Central Death Rates from All Forms of Tuberculosis Combined according to length of residence in Australia 1911-22, 1909-12 & 1919-22.

Males - Born Outside Australia, but Resident 20 years & over in Australia.

Age Group Years	Total Deaths 1911-22 (1915)	Total Deaths A 1909-12 (1915)	Total Deaths B 1919-22 (1915)	Population at Census 1911	Population at Census 1921	Population at Census 1911 per 105	Population at Census 1921 per 105	(7)-(6)	(8) x .515	(6)+(9)	Mean Population 1911-22	Central Death Rates 1911-22 per 105	Central Death Rates 1909-12 per 105	Central Death Rates 1919-22 per 105
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
20-24	10	5	1	1,847	906	629	381	-248	-143	486	1,264	66	90	39
25-29	39	27	2	7,935	15,65	2,701	659	-2,092	-1,174	1,527	3,970	82	113	43
30-34	112	36	15	12,212	4,073	4,157	1,715	-2,442	-1,404	2,753	7,157	130	98	123
35-39	184	43	27	15,491	11,125	5,273	4,683	-590	-339	4,934	12,828	120	93	81
40-44	300	126	58	26,540	18,656	9,034	7,854	-1,180	-679	8,355	21,722	115	158	104
45-49	521	216	100	39,522	22,646	13,464	9,533	-3,931	-2,260	11,204	29,129	142	182	147
50-54	661	199	119	41,239	30,344	14,038	12,774	-1,264	-727	13,311	34,607	159	161	131
55-59	679	181	168	36,986	36,843	12,590	15,510	+2,920	+1,679	14,629	37,098	153	163	152
60-64	614	169	158	32,156	35,158	10,946	14,801	+3,855	+2,217	13,163	34,222	150	175	150
65-69	481	112	109	27,628	29,534	9,405	12,433	+3,028	+1,741	11,146	28,978	138	135	123
70-74	255	89	57	23,592	29,941	8,031	8,816	+785	+451	8,482	22,052	96	126	91
75-79	117	40	27	16,395	13,324	5,581	5,609	+28	+16	5,597	14,552	67	81	68
80+	57	13	16	10,809	11,581	3,679	4,875	+1,196	+688	4,367	11,354	42	40	46
Unspecified	4	-	2	1,387	847	472	357	-115	-66	406	1,056	-	-	-
Total All Ages	4,034	1,256	859	293,769	237,543	100,000	100,000	+11,812	+6,792	100,000	259,989	-	-	-

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## TABLE 56

Commonwealth of Australia - Calculation of Central Death Rates from All Forms of Tuberculosis combined according to length of residence in Australia 1911-22, 1909-12 & 1919-22.

Females - Born Outside Australia, but Resident 20 years & over in Australia.

Age Group Years	Total Deaths 1911-22 (12 yrs)	Total Deaths A 1909-12 (3 yrs)	Total Deaths B 1919-22 (3 yrs)	Population at Census 1911	Population at Census 1921	Population at Census 1911 per 105	Population at Census 1921 per 105	(7)-(6)	(8) x .545	(6)+(8)	Mean Population 1911-22	Central Death Rate 1911-22 per 105	Central Death Rate A 1909-12 per 105	Central Death Rate B 1919-22 per 105
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
20-24	9	5	4	2,016	892	935	506	-429	-247	688	1,321	57	83	149
25-29	43	29	4	8,346	1,689	3,870	959	-2911	-1,674	2,196	4,216	85	116	79
30-34	84	31	10	12,038	4,165	5,581	2,365	-3,216	-1,849	3,732	7,165	98	86	80
35-39	133	42	18	14,067	10,381	6,522	5,893	-629	-362	6,160	11,826	94	100	58
40-44	152	47	26	17,273	14,946	8,009	8,485	+476	+274	8,283	15,901	80	91	58
45-49	167	51	26	22,386	17,059	10,379	9,685	-694	-399	9,980	19,159	73	76	51
50-54	187	53	36	22,630	18,665	10,493	10,596	+103	+59	10,537	20,257	77	78	64
55-59	176	56	47	24,007	21,531	11,131	12,223	+1,092	+628	11,759	22,574	65	78	73
60-64	180	63	35	24,969	21,657	11,577	12,295	+718	+413	11,990	23,018	65	84	54
65-69	162	56	32	23,272	21,018	10,790	11,932	+1,142	+657	11,447	21,975	61	80	51
70-74	102	32	18	20,024	18,394	9,284	10,443	+1,159	+666	9,950	19,102	44	80	33
75-79	60	16	11	13,728	12,804	6,365	7,269	+904	+520	6,885	13,217	38	39	29
80+	31	10	4	9,480	12,282	4,395	6,973	+2,578	+1,482	5,877	11,282	23	35	11
Unspecified	-	-	-	1,443	662	669	376	-293	-168	501	962	-	-	-
Total All Ages	1,486	491	271	215,679	176,145	100,000	100,000	-8,172	-7,699	+8,172	191,975	-	-	-

TABLE 57

Commonwealth of Australia - calculation of Central Death Rates from All Forms of Tuberculosis combined according to length of residence in Australia 1911-22, 1909-12 & 1919-22

Males - born outside Australia, but resident 15-19 years in Australia

Age Group - Years	Total Deaths 1911-22 (12 yrs)	Total Deaths A 1909-12 (3 yrs)	Total Deaths B 1919-22 (3 yrs)	Population at Census 1911	Population at Census 1921	Population at Census 1911 per 10 <sup>4</sup>	Population at Census 1921 per 10 <sup>4</sup>	(7)-(6)	(8) x .595	(6)+(9)	Mean Population 1911-22	Central Death Rates 1911-22 per 10 <sup>5</sup>	Central Death Rates 1909-12 per 10 <sup>5</sup>	Central Death Rates B 1919-22 per 10 <sup>5</sup>
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
15-19	4	-	1	447	1,006	207	667	+460	+265	497	829	40	-	33
20-24	5	-	1	1,166	736	540	488	-57	-30	510	895	47	-	45
25-29	6	4	-	1,375	686	637	455	-187	-105	532	934	54	97	-
30-34	28	10	3	2,241	1,383	1,039	917	-122	-70	969	1,701	137	149	72
35-39	69	15	15	4,855	3,056	2,250	2,027	-223	-128	2,122	3,726	154	103	164
40-44	75	23	18	4,768	3,412	2,210	2,263	+53	+30	2,240	3,933	159	161	176
45-49	66	24	15	2,880	2,070	1,335	1,373	+38	+22	1,357	2,383	231	278	242
50-54	40	14	4	1,625	1,252	753	831	+78	+45	798	1,401	238	287	106
55-59	28	9	7	960	695	445	461	+16	+9	454	797	293	312	336
60-64	18	7	4	502	385	233	255	+22	+13	246	432	347	465	346
65-69	12	4	2	302	209	140	139	-1	-1	139	244	410	442	319
70-74	9	5	-	193	87	89	58	-31	-18	71	125	602	864	-
75-79	-	-	-	92	29	43	19	-24	-14	29	51	-	-	-
80+	-	-	-	49	29	23	19	-4	-2	21	37	-	-	-
Unspecified	-	-	-	121	42	56	28	-28	-16	40	70	-	-	-
Total All Ages	360	115	70	21,576	15,077	10,000	10,000	+667 -667	+384 -384	10,000	17,558	-	-	-



# TABLE 58

Commonwealth of Australia - Calculation of Central Death Rates from All Forms of Tuberculosis combined according to length of residence in Australia 1911-12, 1909-12 & 1919-22.  
 Females - Born outside Australia, but Resident 15-19 years in Australia.

Age Group Years	Total Deaths 1911-12 (12 yrs)	Total Deaths A 1909-12 (2 yrs)	Total Deaths B 1919-22 (2 yrs)	Population at Census 1911	Population at Census 1921	Population at Census 1911 per 104	Population at Census 1921 per 104	(7)-(6)	(8) x .575	(6)+(9)	Mean Population 1911-22	Central Death Rate 1911-12 per 105	Central Death Rate A 1909-12 per 105	Central Death Rate B 1919-22 per 105
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
15-19	3	2	-	501	900	395	1,151	+756	+435	830	797	31	133	-
20-24	11	3	1	1,171	772	923	987	+64	+37	960	922	99	85	43
25-29	10	1	4	1,202	523	947	669	-278	-160	787	756	110	28	255
30-34	13	3	3	1,482	663	1,168	848	-320	-184	984	945	115	67	151
35-39	28	9	5	2,368	1,198	1,866	1,532	-334	-192	1,674	1,608	145	127	139
40-44	15	6	2	2,041	1,151	1,608	1,472	-136	-78	1,530	1,470	85	98	58
45-49	17	5	4	1,405	956	1,107	1,223	+116	+67	1,174	1,127	126	119	139
50-54	7	2	2	858	646	676	826	+150	+86	762	732	80	117	103
55-59	1	-	-	525	390	414	499	+85	+49	463	445	19	-	-
60-64	2	1	1	373	246	294	315	+21	+12	306	294	57	89	136
65-69	1	-	-	272	157	214	201	-13	-7	207	199	42	-	-
70-74	1	1	-	215	106	170	136	-34	-20	150	144	58	155	-
75-79	-	-	-	116	44	91	56	-35	-20	71	68	-	-	-
80+	-	-	-	84	36	66	46	-20	-12	54	52	-	-	-
Unspecified	-	-	-	77	30	61	39	-22	-13	48	46	-	-	-
Total-Age	109	33	22	12,690	7,818	10,000	10,000	+1192	+686	10,000	9,605	-	-	-



# TABLE 59

Commonwealth of Australia - Calculation of Central Death Rates from All Forms of Tuberculosis combined according to length of Residence in Australia 1911-22, 1909-12 & 1919-21

Males - Born outside Australia, but Resident 10-14 years in Australia.

Age Group Years	Total Deaths 1911-22 (1911-22)	Total Deaths A 1909-12 (3 yrs)	Total Deaths B 1919-21 (3 yrs)	Population at Census 1911	Population at Census 1921	Population at Census 1911 per 10 <sup>4</sup>	Population at Census 1921 per 10 <sup>4</sup>	(7)-(6)	(8) x .575	(6)+(9)	Mean Population 1911-22	Central Death Rates 1911-22 per 10 <sup>5</sup>	Central Death Rates 1909-12 per 10 <sup>5</sup>	Central Death Rates B 1919-21 per 10 <sup>5</sup>
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
10-14	1	-	1	536	3,596	241	610	+369	+212	453	1,763	5	-	9
15-19	2	-	2	739	3,963	333	673	+340	+196	529	2,058	8	-	17
20-24	13	2	6	991	2,995	446	508	+62	+36	482	1,876	58	67	67
25-29	39	5	18	2,295	5,223	1,034	886	-148	-85	949	3,693	88	73	115
30-34	91	14	43	5,322	12,311	2,398	2,090	-308	-197	2,221	8,642	88	88	116
35-39	135	28	53	5,135	12,039	2,313	2,043	-270	-155	2,158	8,397	134	182	147
40-44	85	11	34	3,096	7,882	1,395	1,338	-57	-33	1,362	5,300	134	118	144
45-49	59	9	24	1,660	4,911	748	834	+86	+49	797	3,101	159	181	163
50-54	37	10	12	993	2,868	447	487	+40	+23	470	1,829	169	336	139
55-59	20	8	9	540	1,627	243	276	+33	+19	262	1,019	163	494	184
60-64	15	1	6	313	817	141	139	-2	-1	140	545	229	106	245
65-69	6	-	3	184	379	83	64	-19	-11	72	280	178	-	264
70-74	5	1	2	127	166	57	28	-29	-17	40	156	268	262	402
75-79	-	-	-	60	68	27	12	-15	-9	18	70	-	-	-
80+	-	-	-	26	32	12	5	-7	-4	8	31	-	-	-
Unspecified	-	-	-	182	42	82	7	-75	-43	39	152	-	-	-
Total All Ages	508	89	213	22,199	58,919	10,000	10,000	+930	+535	10,000	38,912	-	-	-

TABLE 60

Commonwealth of Australia - Calculation of Ventral Death Rates from All Forms of Tuberculosis combined according to length of Residence in Australia 1911-22, 1909-12 & 1919-22.

Females - Born Outside Australia, but Resident 10-14 years in Australia.

Age Group years	Total Deaths 1911-22 (12 yrs)	Total Deaths A 1909-12 (3 yrs)	Total Deaths B 1919-22 (3 yrs)	Population at Census 1911	Population at Census 1921	Population at Census 1911 per 10 <sup>4</sup>	Population at Census 1921 per 10 <sup>4</sup>	(7)-(6)	(8) x .575	(6)+(9)	Mean Population 1911-22	Ventral Death Rate 1911-22 per 10 <sup>5</sup>	Ventral Death Rate A 1909-12 per 10 <sup>5</sup>	Ventral Death Rate B 1919-22 per 10 <sup>5</sup>
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
10-14	1	-	1	549	3,318	532	1,041	+509	+293	825	1,628	5	-	10
15-19	7	2	4	743	3,788	720	1,188	+468	+269	989	1,952	30	90	35
20-24	14	-	8	731	2,848	709	893	+184	+106	815	1,609	73	-	94
25-29	26	6	10	1,164	2,541	1,128	797	-331	-190	938	1,851	117	172	131
30-34	30	9	11	2,001	4,002	1,939	1,255	-684	-393	1,546	3,052	82	150	92
35-39	33	9	17	1,739	4,789	1,686	1,502	-184	-106	1,580	3,119	88	173	118
40-44	22	3	14	1,203	3,911	1,166	1,222	+61	+35	1,201	2,371	77	83	119
45-49	12	-	6	782	2,705	758	848	+90	+52	810	1,599	63	-	74
50-54	10	1	4	441	1,728	427	542	+115	+66	493	973	86	76	77
55-59	11	2	3	268	1,022	260	321	+61	+35	295	582	157	249	98
60-64	7	-	2	233	576	226	181	-45	-26	200	395	148	-	116
65-69	3	-	1	174	298	169	93	-76	-44	125	247	101	-	112
70-74	-	-	-	118	166	114	52	-62	-36	78	154	-	-	-
75-79	1	-	1	50	87	48	27	-21	-12	36	71	117	-	383
80+	-	-	-	36	53	35	17	-18	-10	25	49	-	-	-
Unspecified	-	-	-	86	51	83	16	-67	-39	44	87	-	-	-
Total-All Ages	177	32	82	10,318	31,883	10,000	10,000	+1488	+856	10,000	19,739	-	-	-
								-1488	-856					

# TABLE 61

Commonwealth of Australia - Calculation of Central Death Rates from All Forms of Tuberculosis combined according to length of residence in Australia 1911-22, 1909-12 & 1919-22

Males - Born outside Australia, but resident 5-9 years in Australia.

Age Group Years	Total Deaths 1911-22 (12 yrs)	Total Deaths A 1909-12 (3 yrs)	Total Deaths B 1919-22 (3 yrs)	Population at Census 1911	Population at Census 1921	Population at Census 1911 per 10 <sup>4</sup>	Population at Census 1921 per 10 <sup>4</sup>	(7)-(6)	(8) x .575	(6)+(9)	Mean Population 1911-22	Central Death Rates 1911-22 per 10 <sup>5</sup>	Central Death Rates 1909-12 per 10 <sup>5</sup>	Central Death Rates 1919-22 per 10 <sup>5</sup>
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
5-9	3	-	2	653	3,661	358	327	-31	-18	340	1,759	14	-	18
10-14	3	-	2	776	10,862	426	971	+545	+313	739	3,823	7	-	6
15-19	14	1	5	676	8,756	371	783	+412	+237	608	3,146	37	49	19
20-24	44	5	12	1,399	8,812	768	788	+20	+12	780	4,036	91	119	45
25-29	141	17	38	3,698	15,580	2,030	1,392	-638	-367	1,663	8,604	137	153	81
30-34	194	23	54	4,165	19,682	2,286	1,759	-527	-303	1,983	10,260	158	184	91
35-39	164	21	42	2,651	15,897	1,455	1,421	-34	-20	1,435	7,424	184	264	88
40-44	113	17	34	1,643	11,301	902	1,010	+108	+62	964	4,988	189	345	100
45-49	62	5	21	982	7,671	539	686	+147	+85	624	3,228	160	170	91
50-54	32	7	13	582	4,715	319	421	+102	+59	378	1,956	136	401	92
55-59	26	2	7	346	2,484	190	222	+32	+18	208	1,076	201	193	94
60-64	10	-	4	236	1,327	129	118	-11	-6	123	636	131	-	100
65-69	6	1	2	125	610	69	54	-15	-9	60	311	161	267	109
70-74	3	-	1	88	276	48	25	-23	-13	35	180	138	-	121
75-79	-	-	-	61	112	33	10	-23	-13	20	104	-	-	-
80+	-	-	-	22	38	12	3	-9	-5	7	36	-	-	-
Unspecified	3	-	2	118	111	65	10	-55	-32	33	171	-	-	-
Total- All Ages	818	99	239	18,221	111,895	10,000	10,000	+1366 -1366	+786 -786	10,000	51,738	-	-	-



# TABLE 62

Commonwealth of Australia - Calculation of Central Death Rates from All Forms of Tuberculosis combined according to length of residence in Australia 1911-22, 1909-12 & 1919-22

Females - born outside Australia, but Resident 5-9 years in Australia.

Age Group Years	Total Deaths 1911-22 (12 yrs)	Total Deaths A 1909-12 (3 yrs)	Total Deaths B 1919-22 (3 yrs)	Population at Census 1911	Population at Census 1921	Population at Census 1911 per 10 <sup>4</sup>	Population at Census 1921 per 10 <sup>4</sup>	(7)-(6)	(8) x .595	(6)+(9)	Mean Population 1911-22	Central Death Rates 1911-22 per 10 <sup>5</sup>	Central Death Rates A 1909-12 per 10 <sup>5</sup>	Central Death Rates B 1919-22 per 10 <sup>5</sup>
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
5-9	3	-	-	594	3,629	640	414	-226	-130	510	1,723	15	-	-
10-14	7	1	2	793	10,473	854	1,194	+340	+196	1,050	3,546	16	42	6
15-19	14	-	5	581	8,676	626	989	+363	+209	835	2,820	41	-	19
20-24	41	4	13	725	7,478	781	852	+71	+41	822	2,796	123	184	58
25-29	72	7	24	1,459	8,928	1,571	1,018	-553	-318	1,253	4,232	142	160	90
30-34	81	6	31	1,464	12,084	1,577	1,377	-200	-115	1,462	4,938	137	137	86
35-39	53	9	21	1,176	12,345	1,267	1,407	+140	+81	1,348	4,553	97	255	57
40-44	34	1	8	827	9,208	891	1,050	+159	+91	982	3,317	85	40	29
45-49	26	2	7	514	5,965	554	680	+126	+72	626	2,114	102	130	39
50-54	10	-	2	365	3,847	393	439	+46	+26	419	1,415	59	-	17
55-59	5	-	2	245	2,282	264	260	-4	-2	262	885	47	-	29
60-64	4	-	2	187	1,316	201	150	-51	-29	172	581	57	-	51
65-69	2	2	-	123	803	132	92	-40	-23	109	368	45	542	-
70-74	3	-	2	96	381	103	43	-60	-34	69	233	107	-	175
75-79	1	-	1	42	160	45	18	-27	-16	29	98	85	-	208
80+	-	-	-	38	62	41	7	-34	-20	21	71	-	-	-
Unspecified	-	-	-	56	86	60	10	-50	-29	31	105	-	-	-
Total All Ages	356	32	120	9,285	87,713	10,000	10,000	+1,245	+716	10,000	33,775	-	-	-
								-1,245	-716					



TABLE 63

Commonwealth of Australia - Calculation of Central Death Rates from All Forms of Tuberculosis combined according to length of residence in Australia 1911-22, 1909-22 & 1919-22.  
 Males - Born Outside Australia, but Resident 0-4 years in Australia.

Age Group Years	Total Deaths 1911-22 (12 yrs)	Total Deaths A 1909-22 (3 yrs)	Total Deaths B 1919-22 (3 yrs)	Population at Census 1911	Population at Census 1921	Population at Census 1911 per 104	Population at Census 1921 per 104	(7)-(6)	(8) x .575	(6)+(9)	Mean Population 1911-22	Central Death Rates 1911-22 per 105	Central Death Rates 1909-22 per 105	Central Death Rates 1919-22 per 105
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
0-4	26	9	5	3,707	3,679	437	850	+413	+738	675	3,887	56	81	45
5-9	13	2	-	4,412	2,554	521	590	+69	+40	561	3,230	34	15	-
10-14	8	1	-	3,150	2,294	372	530	+158	+91	463	2,666	25	11	-
15-19	37	7	6	6,181	3,410	730	788	+58	+33	763	4,394	70	38	59
20-24	170	48	17	17,820	7,030	2,103	1,624	-479	-275	1,828	10,526	134	90	81
25-29	279	79	25	18,893	7,024	2,230	1,623	-607	-349	1,881	10,831	215	139	119
30-34	232	64	21	12,211	5,361	1,441	1,239	-202	-116	1,325	7,629	283	175	131
35-39	158	35	18	7,500	3,757	885	868	-17	-10	875	5,038	261	156	160
40-44	91	13	14	4,453	2,700	526	624	+98	+56	587	3,351	226	97	173
45-49	58	15	6	2,663	1,807	314	418	+104	+60	374	2,154	224	188	111
50-54	42	10	8	1,512	1,269	178	293	+115	+66	244	1,405	249	220	210
55-59	12	4	4	802	804	95	186	+91	+52	147	846	118	166	166
60-64	10	1	3	440	572	52	132	+80	+46	98	564	148	76	175
65-69	6	1	2	218	317	26	73	+47	+27	53	305	164	153	210
70-74	4	-	-	133	125	16	29	+13	+7	23	132	252	-	-
75-79	-	-	-	41	44	5	10	+5	+3	8	46	-	-	-
80+	-	-	-	29	15	3	3	0	0	3	17	-	-	-
Unspecified	2	1	-	562	519	66	120	+54	+31	97	559	-	-	-
Total All Ages	1,148	290	129	84,722	43,281	10,000	10,000	+1305 -1305	+750 -750	10,000	57,580	-	-	-

# TABLE 64

Commonwealth of Australia - Calculation of Central Death Rates from All Forms of Tuberculosis combined according to length of residence in Australia 1911-22, 1909-11, 1919-22

Females - Born outside Australia, but Resident 0-4 years in Australia.

Age Group Years	Total Deaths 1911-22 (1911-22)	Total Deaths A 1909-11 (1909-11)	Total Deaths B 1919-22 (1919-22)	Population at Census 1911	Population at Census 1921	Population at Census 1911 per 104	Population at Census 1921 per 104	(7)-(6)	(8) x .595	(6)+(9)	Mean Population 1911-22	Central Death Rates 1911-22 per 105	Central Death Rates A 1909-11 per 105	Central Death Rates B 1919-22 per 105
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
0-4	26	11	4	3,518	3,498	895	807	-88	-51	844	3,510	62	104	38
5-9	11	1	2	4,140	3,452	1,053	566	-487	-280	473	3,214	29	8	27
10-14	13	3	-	2,903	2,143	738	494	-244	-140	598	2,487	44	34	-
15-19	29	6	2	2,671	1,957	679	452	-227	-131	548	2,279	106	75	34
20-24	81	19	16	4,975	8,271	1,265	1,908	+643	+370	1,635	6,799	99	127	64
25-29	121	20	29	6,472	9,364	1,646	2,160	+514	+296	1,942	8,075	125	103	103
30-34	109	16	11	5,122	5,858	1,303	1,351	+48	+28	1,331	5,534	164	104	63
35-39	55	14	9	3,515	3,475	894	802	-92	-53	841	3,497	131	133	86
40-44	26	3	6	2,267	2,047	597	472	-105	-60	517	2,150	101	44	98
45-49	23	3	2	1,415	1,293	360	298	-62	-36	324	1,347	142	71	52
50-54	8	2	-	875	991	223	229	+6	+3	226	940	71	76	-
55-59	2	1	-	543	841	138	194	+56	+32	170	707	24	61	-
60-64	3	1	-	360	564	92	130	+38	+22	114	474	53	93	-
65-69	2	1	-	204	323	52	75	+23	+13	65	270	62	163	-
70-74	-	1	-	118	150	30	35	+5	+3	33	137	-	282	-
75-79	-	-	-	39	47	10	11	+1	+1	11	46	-	-	-
80+	-	-	-	24	26	6	6	0	0	6	25	-	-	-
Unspecified	-	-	-	154	42	39	10	-29	-17	22	91	-	-	-
Total All Ages	509	102	81	39,315	43,342	10,000	10,000	+1334 -1334	+768 -768	10,000	41,582	-	-	-

TABLE 65

Commonwealth of Australia - Births - 1907-1922.

Males				Females			
Year	Births	Year	Births	Year	Births	Year	Births
1907	56,489	1915	69,049	1907	53,858	1915	65,822
1908	57,113	1916	67,505	1908	54,432	1916	63,921
1909	58,482	1917	66,883	1909	55,589	1917	63,082
1910	60,206	1918	64,458	1910	56,595	1918	61,281
1911	62,508	1919	62,931	1911	59,685	1919	59,359
1912	68,022	1920	70,256	1912	65,066	1920	66,150
1913	69,434	1921	70,039	1913	66,280	1921	66,159
1914	70,604	1922	70,582	1914	67,379	1922	66,914

Exposed to Risk for Deaths 1912-22 incl.:-

$$\text{Age}(0) = \frac{1}{2} B_{1911} + B(1912-1921) + \frac{1}{2} B_{1922}$$

$$\text{Age}(1) = \frac{1}{2} B_{1910} + B(1911-20) + \frac{1}{2} B_{1921} - D(0) \{1911-21\}$$

$$\text{Age}(2) = \frac{1}{2} B_{1909} + B(1910-19) + \frac{1}{2} B_{1920} - D(0) \{1910-20\} - D(1) \{1911-21\}$$

$$\text{Age}(3) = \frac{1}{2} B_{1908} + B(1909-18) + \frac{1}{2} B_{1919} - D(0) \{1909-19\} - D(1) \{1910-20\} - D(2) \{1911-21\}$$

$$\text{Age}(4) = \frac{1}{2} B_{1907} + B(1908-17) + \frac{1}{2} B_{1918} - D(0) \{1908-18\} - D(1) \{1909-19\} - D(2) \{1910-20\} - D(3) \{1911-21\}.$$

where  $B_{1911}$  = Births during 1911 etc.

$D(0) \{1911-21\}$  = Deaths at age 0 during 1911-21 incl.  
etc.

These deaths are from all causes & are given on Tables 9 & 10.

$$\text{Death Rate at age 0} = \frac{\text{Deaths from Pulmonary Tuberculosis at age 0}}{\text{Exposed to Risk at age 0}}$$

These deaths are given on Tables 5 & 6.

The results are given in the Text.



THESIS for M.D. DEGREE

AGE-TYPES OF TUBERCULOSIS IN AUSTRALIA

JAMES BROWN